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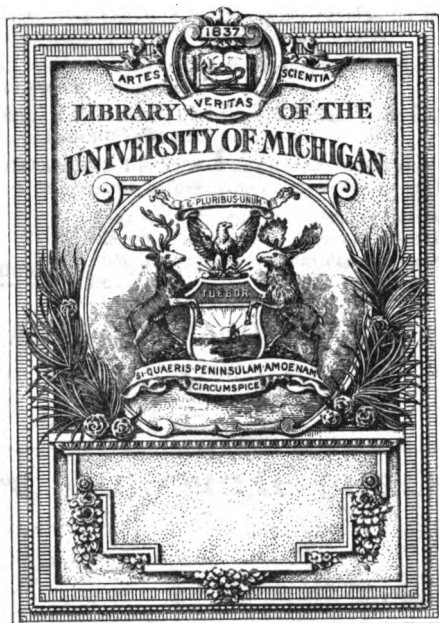
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BRITISH ASSOCIATION—*continued*.

Membership.—Entrance Fee, £1; Annual Subscription, £1; Associates for the Meeting only, £1; Ladies' Transferable Tickets, £1; Life Composition, £10.

Proceedings of the Seventy-fourth Annual Meeting. (Published in the "Report," price 24s.)

This Meeting was held at CAMBRIDGE, Aug. 17-23, 1904.

The Seventy-fifth Annual Meeting was held in SOUTH AFRICA, Aug. 15-31, 1905. The List of Papers read at this Meeting will appear in next year's *Year-Book*.

COMMITTEES APPOINTED BY THE GENERAL COMMITTEE AT THE CAMBRIDGE MEETING IN AUGUST 1904.

1. *Receiving Grants of Money.*

Making Experiments for Improving the Construction of Practical Standards for use in Electrical Measurements. *Sec.*—Dr R. T. Glazebrook. *Grant.*—£40.

Seismological Observations. *Sec.*—Mr J. Milne. *Grant.*—£40.
To co-operate with the Royal Meteorological Society in initiating an Investigation of the Upper Atmosphere by means of Kites. *Sec.*—Mr W. H. Dines. *Grant.*—£40.

To co-operate with the Committee of the Falmouth Observatory in their Magnetic Observations. *Sec.*—Dr R. T. Glazebrook. *Grant.*—£50.

Preparing a New Series of Wave-length Tables of the Spectra of the Elements. *Sec.*—Dr Marshall Watts. *Grant.*—£5.

The Study of Hydro-aromatic Substances. *Sec.*—Dr A. W. Crossley. *Grant.*—£25.

Dynamic Isomerism. *Sec.*—Dr T. M. Lowry. *Grant.*—£20.

The Transformation of Aromatic Nitramines and allied substances, and its relation to Substitution in Benzene Derivatives. *Sec.*—Prof. K. J. P. Orton.

To investigate the Erratic Blocks of the British Isles, and to take Measures for their Preservation. *Sec.*—Mr P. F. Kendall. *Grant.*—£10. [And unexpended balance.]

The Movements of Underground Waters of North-West Yorkshire. *Sec.*—Mr A. R. Derryhouse. [Balance in hand.]

To Study Life-Zones in the British Carboniferous Rocks. *Sec.*—Dr Wheelton Hind. [Balance in hand.]

To report upon the Fauna and Flora of the Trias of the British Isles. *Sec.*—Mr J. Lomas. *Grant.*—£10.

To investigate the Fossiliferous Drift Deposits at Kirmington, Lincolnshire, and at various localities in the East Riding of Yorkshire. *Sec.*—Mr J. W. Stather. [Balance in hand.]

To aid Competent Investigators selected by the Committee to carry on definite pieces of work at the Zoological Station at Naples. *Sec.*—Rev. T. R. R. Stebbing. *Grant.*—£100.

Compilation of an *Index Generum et Specierum Animalium*. *Sec.*—Dr F. A. Bather. *Grant.*—£75.

To enable Mr J. W. Jenkinson to continue his Researches on the Influence of Salt and other Solutions on the Development of the Frog. *Sec.*—Mr J. W. Jenkinson. *Grant.*—£10. [And unexpended balance.]

To enable Dr F. W. Gamble and Mr F. W. Keeble to conduct Researches on the relation between Respiratory Phenomena and Colour Changes in the Higher Crustacea. *Sec.*—Dr F. W. Gamble. *Grant.*—£15. [And unexpended balance.]

To carry on an Expedition to investigate the Indian Ocean between India and South Africa, in view of a possible land connection, to examine the deep submerged banks, the Nazareth and Saza de Malha, and also the distribution of Marine Animals. *Sec.*—Mr J. Stanley Gardiner. *Grant.*—£150.

BRITISH ASSOCIATION—*continued.*

The Accuracy and Comparability of British and Foreign Statistics of International Trade. *Sec.*—Dr W. G. S. Adams. *Grant.*—£20.

To conduct Archaeological and Ethnological Researches in Crete. *Sec.*—Mr J. L. Myres. *Grant.*—£75. [And unexpended balance.]

To investigate the Lake Village at Glastonbury, and to report on the best method of publication of the result. *Sec.*—Prof. W. Boyd Dawkins. [Balance in hand.]

To conduct Anthropometric Investigations among the Native Troops of the Egyptian Army. *Sec.*—Dr C. S. Myers. *Grant.*—£10.

To co-operate with Local Committees in Excavations on Roman Sites in Britain. *Sec.*—Mr J. L. Myres. *Grant.*—£10.

To organise Anthropometric Investigation in the British Isles. *Sec.*—Mr J. Gray. *Grant.*—£10.

To conduct Explorations with the object of ascertaining the Age of Stone Circles. *Sec.*—Mr H. Balfour. *Grant.*—£40.

The present state of Anthropological Teaching in the United Kingdom and elsewhere. *Sec.*—Mr J. L. Myres. [Balance in hand.]

The State of Solution of Proteids. *Sec.*—Prof. E. Waymouth Reid. *Grant.*—£20.

To enable Prof. Starling, Prof. Brodie, Dr Hopkins, Mr Fletcher, Mr Barcroft, and others to determine the "Metabolic Balance Sheet" of the Individual Tissues. *Sec.*—Mr J. Barcroft. *Grant.*—£30. [And unexpended balance.]

The Ductless Glands. *Sec.*—Prof. Swale Vincent. *Grant.*—£40.

To carry out the scheme for the Registration of Negatives of Botanical Photographs. *Sec.*—Prof. F. E. Weiss. *Grant.*—£5.

Experimental Studies in the Physiology of Heredity. *Sec.*—Mr A. C. Seward. *Grant.*—£35.

The Structure of Fossil Plants. *Sec.*—Prof. F. W. Oliver. *Grant.*—£50.

To report upon the Course of Experimental, Observational, and Practical Studies most suitable for Elementary Schools. *Sec.*—Mr W. M. Heller. *Grant.*—£20.

Corresponding Societies Committee for the preparation of their Report. *Sec.*—Mr F. W. Rudler. *Grant.*—£20.

2. *Not receiving Grants of Money.*

Co-operating with the Scottish Meteorological Society in making Meteorological Observations on Ben Nevis. *Sec.*—Prof. Crum Brown.

The Rate of Increase of Underground Temperature downwards in various Localities of Dry Land and under Water. *Sec.*—Prof. H. L. Callendar.

The Consideration of the Teaching of Elementary Mechanics, and the Improvement which might be effected in such Teaching. *Sec.*—Prof. J. Perry.

That Miss Hardcastle be requested to continue her Report on the Present State of the Theory of Point-Groups.

Isomeric Naphthalene Derivatives. *Sec.*—Prof. H. E. Armstrong.

The Study of Isomorphous Sulphonic Derivatives of Benzene. *Sec.*—Prof. H. E. Armstrong.

The Collection, Preservation, and Systematic Registration of Photographs of Geological Interest. *Sec.*—Prof. W. W. Watts.

To record and determine the Exact Significance of Local Terms applied in the British Isles to Topographical and Geological Objects. *Sec.*—Mr W. G. Fearnside.

To continue the investigation of the Zoology of the Sandwich Islands, with power to co-operate with the Committee appointed for the purpose by the Royal Society, and to avail themselves of such assistance in their investigations as may be offered by the Hawaiian Government or the Trustees of the Museum at Honolulu. The Committee to have power to dispose of specimens where advisable. *Sec.*—Dr David Sharp.

To conduct an Investigation into the Madreporaria of the Bermuda Islands. *Sec.*—Dr W. E. Hoyle.

To summon meetings in London or elsewhere for the consideration of matters

BRITISH ASSOCIATION—*continued.*

affecting the Interests of Zoology or Zoologists, and to obtain by correspondence the opinion of Zoologists on matters of a similar kind, with power to raise by subscription from each Zoologist a sum of money for defraying current expenses of the Organisation. *Sec.*—Prof. S. J. Hickson.

To inquire into the probability of *Ankylostoma* becoming a permanent inhabitant of our Coal Mines in the event of its introduction, with power to issue an interim report. *Sec.*—Mr G. P. Bidder.

To enable Miss Igerna Sollas, of Newnham College, Cambridge, to study certain points in the development of Ophiuroids, and to enable other competent naturalists to perform definite pieces of work at the Marine Laboratory, Plymouth. *Sec.*—Mr W. Garstang.

To enable Dr H. W. Marett Tims to conduct experiments with regard to the effect of the Sera and Antisera on the Development of the Sexual Cells. *Sec.*—Dr H. W. Marett Tims.

Terrestrial Surface Waves. *Sec.*—Dr Vaughan Cornish.

The continued Investigation of the Oscillations of the Level of the Land in the Mediterranean Basin. *Sec.*—Mr R. T. Günther.

To investigate the Resistance of Road Vehicles to Traction. *Sec.*—Mr A. Mallock.

To consider the Incidence of the Patent and Design Laws upon the National Development of the Practical Applications of Science. *Sec.*—Sir H. Trueman Wood.

The Collection, Preservation, and Systematic Registration of Photographs of Anthropological Interest. *Sec.*—Mr H. S. Kingsford.

To report on the present state of Knowledge of the Ethnography, Folk-lore, and Languages of the Peoples of the Pacific, with a view to further research. *Sec.*—Dr A. C. Haddon.

To consider what steps may be taken to organise Anthropological Teaching and Research in the British Empire. *Sec.*—Mr J. L. Myres.

Excavations on Prehistoric Sites in South Africa. *Sec.*—Mr J. L. Myres.

The Physiological Effects of Peptone and its Precursors when introduced into the Circulation. *Sec.*—Prof. W. H. Thompson.

The Conditions of Health essential to the carrying on of the work of Instruction in Schools. *Sec.*—Mr E. White Wallis.

To consider and report upon the influence exercised by Universities and Examining Bodies on Secondary School Curricula, and also of the Schools on University requirements. *Sec.*—Mr R. A. Gregory.

The Training of Teachers. *Sec.*—Mr J. L. Holland.

Communications ordered to be printed in extenso.

The Stereochemistry of Nitrogen. By Dr H. O. Jones. Dynamic Isomerism. By Dr T. M. Lowry. On the Wells of Cambridgeshire. By Mr W. Whitaker, F.R.S.

*Resolutions referred to the Council for consideration, and action if desirable.**From Section A.*

The Committee think it desirable that information as to reports and papers sent to the General Secretary for communication to any Section should be forwarded to the Recorder of the Section concerned as soon as possible after it is received at the office.

The Committee of Section A desire to draw the attention of the Committee of Recommendations to the concluding portion of Sir John Eliot's Introductory Address to the Sub-Section for Astronomy and Cosmical Physics, and to express the opinion that the organisation of a Central Meteorological Department for the British Empire would be of the highest benefit to the progress of Meteorological Science and its application to the economic problems of the various Colonies and Dependencies. The object of each department would be to collect and prepare digests of the Meteorological observations taken in different parts of the Empire, to provide a scientific staff for dealing with the more general Meteorological problems, including their relations to Solar Physics and Terrestrial Magnetism, which involve the co-ordination of data from wide areas, and to promote experi-

BRITISH ASSOCIATION—*continued.*

mental investigations of the scientific questions which arise in connection with such discoveries. The Committee desire also to express the opinion that the reorganisation of the Meteorological Office, which is at present before the Government, affords an exceptionally favourable opportunity for the establishment of such a Central Meteorological Department for the Empire.

From Section F.

That it is desirable that the Reports of Committees, especially where they extend over two or more years, should be offered for public circulation in a separate form from the annual volume of Reports, at a small price, say 6d. per copy.

That as there has been a great demand for copies of the Reports of the Women's Labour Committee of this Section, and it has been impossible to satisfy it, these Reports be printed and sold separately at the smallest charge possible.

From the Conference of Delegates.

That a Committee be appointed, consisting of Members of the Council of the Association, together with representatives of the Corresponding Societies, to consider the present relation between the British Association and local Scientific Societies.

That the Committee be empowered to make suggestions to the Council with a view to the greater utilisation of the connection between the Association and the affiliated Societies, and the extension of affiliation to other Societies who are at present excluded under Regulation 1.

*Transactions of the Sections.***Section A. Mathematical and Physical Science.**

August 18.

Abraham, Prof. M.—The Reaction of the Radiation on a Moving Electron.

Larmor, Prof. J., Sec. R.S.—On the Dynamical Significance of Kundt's Law of Anomalous Dispersion.

— On the Relation of the Röntgen Radiation to ordinary Light.

Poynting, Prof. J. H., F.R.S.—Preliminary Note on the Tangential Stress due to Light incident obliquely on an Absorbing Surface.

Wien, Prof. W.—Experiments to decide whether the Ether moves with the Earth.

Witkowski, A. W.—Thermal Dilatation of Compressed Hydrogen.

Wood, Prof. R.—Quantitative Determination of the Anomalous Dispersion of Sodium Vapour.

August 22.

Discussion on N-Rays. Report of the Committee on Electrical Standards.

Glazebrook, Dr R. T., F.R.S.—Recent Work at the National Physical Laboratory.

Hadfield, R. A.—Exhibition of a Magnetic Alloy containing no Iron.

Kayser, Prof.—Standards of Wave Length.

Lummer, Dr O.—On the Separation of the Finest Spectral Lines.

Rubens, Prof. H.—On "Reststrahlen" and the Optical Qualities of Metals.

Voigt, Prof. W.—An Effect of Electrical Vibrations in an Optically Active Medium.

Wood, Prof. R. W.—Recent Improvements in the Diffraction Process of Colour Photography.

August 23.

Discussion on the Radio-activity of Ordinary Matter.

Blanc, Dr G. A.—On the Radio-activity of the Hot Springs of Aix-les-Bains.

Don, J., M.A.—A Correlation between the Electric Conductivity of Air and the Variation of Barometric Pressure.

Gray, J. M'F.—Dr Grindley's Experiments on Steam in the Light of the Ether-pressure Theory.

Jeanes, J. H.—The Kinetic Theory: Determination of the Size of Molecules.

Kelvin, Lord, F.R.S.—Plan of a Combination of Atoms having the Properties of Polonium or Radium.
— Electrical Insulation in Vacuum.

BRITISH ASSOCIATION—continued.

- Phillips, C. E. S.*—The Production of Radio-active Surfaces.
Richardson, Dr O. W.—The Electrical Properties of Hot Bodies.
Schuster, Prof. A., F.R.S.—On the Ionisation of the Atmosphere.
Whetham, W. C. D., F.R.S.—On a Volatile Product of the Radium Emanation.
Wilson, Dr H. A.—Electrical Conductivity of Flames.

Department of Mathematics.

August 19.

- Ahmad, Z. U.*—On the Use of Divergent Series in Astronomy.
Ball, Sir R., F.R.S.—Note on a Special Homographic Transformation of Screw Systems.
Barnes, Rev. C. W.—Some Observations on Linear Difference Equations.
Bromwich, T. J. Pa.—On the Roots of the Characteristic Equation of a Linear Substitution.
Cunningham, Lt.-Col. A.—Binary Canon Extension.
Dixon, Prof. A. C., F.R.S.—Note on the Schwarzian Derivative.
Edgeworth, Prof. F. Y., D.C.L.—The Law of Error.
Forsyth, Prof. A. R., F.R.S.—Note on the Theory of Continuous Groups.
Hardcastle, F.—Report on the Theory of Point-groups.
Hardy, G. H.—On the Zeros of two Classes of Taylor Series.
Hilton, H.—Notes on Plane Curves.
Hobson, Dr E. W., F.R.S.—On the Theory of Transfinite Numbers.
MacMahon, Maj. P. A., F.R.S.—The Theory of Linear Partial Differential Equations.
Morley, Prof. F.—A Fragment of Elementary Mathematics.
Orr, Prof. W. M'F.—The Stability of the Steady Motion of a Viscous Fluid.
Volterra, Prof. V.—The Theory of Vibrations.
Whitehead, A. N., F.R.S.—Peano's Symbolic Method.

Sub-section—Astronomy and Cosmical Physics.

August 19.

- Angot, A.*—The Relation between the Minima and following Maxima of Sun-spots.

Angström, Prof. K.—On the Ultra-red Absorption Spectrum of Ozone and the Existence of that Gas in the Atmosphere.

— An Instrument for the Measurement of the Radiation from the Earth.

Birkeland, Prof.—The Relation between Solar Physics and Meteorology.

Bort, L. T. de.—Experiments with Kites in the Mediterranean.

Cortie, Rev. A. L., F.R.A.S.—The Spectra of Sun-spots.

Hepworth, C.—Relation between Pressure, Temperature, and Air Circulation in the South Atlantic Ocean.

Lockyer, Sir N., K.C.B., F.R.S.—The Temperature of the Stars.

Lockyer, W. J. S., F.R.A.S.—The Short-period Barometric See-saw, and its Relation to Rainfall.

Newall, H. F., F.R.S.—Criteria of Stellar Temperatures.

August 22.

Discussion on Units used in Meteorological Measurement.

Reports of the Seismological Committee; on the Investigation of the Upper Atmosphere by Means of Kites.

Gill, Sir D., K.C.B., F.R.S.—Problems of Astronomy.

Rotch, A. L., M.A.—The Temperature of the Air in Cyclones and Anticyclones, as shown by Kite-flights at Blue Hill Observatory, U.S.A.

Russell, Dr H. N.—On the Masses of the Stars.

August 24.

Reports on the Magnetic Observations at Falmouth Observatory; Meteorological Observations on Ben Nevis; Underground Temperature.

Bacon, Rev. J. M.—Upper Air-Currents and their Relation to the Audibility of Sound.

Baden-Powell, Maj. B.—The Development of the Aeroplane.

Cave, Miss F. C.—The Application to Meteorology of the Theory of Correlation.

Hirtel, Dr F.—Zur Flugfrage.

Hopkinson, J., A.I.C.E.—The Rainfall of the Midland and Eastern Counties of England.

— The Rainfall of England, 1861-1900.

BRITISH ASSOCIATION—*continued.*

- Lemström, Prof. S.*—On the Effect of Electric Air-currents.
- Lockyer, W. J. S., F.R.A.S.*—Some Results with the Solar Physics Observatory Photo-Spectro-Heliograph.
- Mill, H. R., D.Sc.*—On the Unsymmetrical Distribution of Rainfall about the Path of a Barometric Depression.
- Thompson, Prof. D'A. W., C.B.*—Plato's Theory of the Planets.
- Burke, J. B.*—On a Modification of FitzGerald's Model of the Ether.
- Denning, A. D., M.Sc.*—On the Viscosity of Colloidal Iron Hydrate.
- Magnetic Double Refraction of Colloidal Iron Hydrate.
- Eggar, W. D.*—An Experimental Verification of Newton's Second Law.
- Fields, M. B.*—Eddy-current Losses in Three-phase Cable-sheaths.
- Fleming, J. A., F.R.S.*—The Propagation of Electric Waves along Spiral Wires, and on an Appliance for Measuring the Length of Waves used in Wireless Telegraphy.
- Hartog, Prof. M.*—On a New Apparatus for producing Magnetic Fields of Force.
- Knott, Prof. C. G.*—Magnetic and Electric Properties of Nickel at High Temperatures.

Department of Physics.

August 24.

- Barrett, Prof. W. F., and R. A. Hadfield.*—On the Electric and Thermic Conductivities of certain Alloys of Iron.

Section B. Chemistry.

August 18.

- Report on the Study of Hydro-aromatic Substances.*
- Beilby, G. T.*—The Relation between the Crystalline and the Amorphous States as disclosed by the Surface Flow of Solids
- The Action of certain Gases on Glass in the Neighbourhood of Hot Metals.
- Bevan, P. V., M.A.*—The Change of Conductivity in Solutions during Chemical Reactions.
- Brühl, Prof. J. W.*—On the Formation of Salts in Solutions, especially amongst Tautomeric Compounds.
- Donnan, F. G.*—A Suggested Explanation of the Phenomena of Opalescence observed in the Neighbourhood of Critical States.
- Edwards, Major A. E., and Prof. W. R. Hodgkinson, Ph.D.*—On Double Acetylides.
- Heycock, C. T., F.R.S., and F. H. Neville, F.R.S.*—Methods of Investigating Alloys, illustrated from the Copper-Tin Series.
- Hodgkinson, Prof. W. R., Ph.D., and A. H. Coote.*—On some Reactions between Ammonium Salts and Metals.
- Jones, H. O., D.S.C.*—The Constitution of Nickel Carbonyl.
- Sell, W. J., F.R.S.*—Hexachloro-picolin and its Derivatives.

August 19.

- Report on Wave-length Tables of the Spectra of the Elements and Compounds.*
- Dieterici, Prof. C.*—On the Energy of Water and Steam at High Temperatures.
- Dixon, Prof. H. B., F.R.S.*—On the Specific Heat of Gases at High Temperatures.
- Fenton, H. J. H., F.R.S.*—Mesoxalic Semialdehyde.
- Note on the Influence of Radium Radiations on Atmospheric Oxidation in presence of Iron.
- A Reaction for Keto-hexoses.
- and *J. P. Millington, B.A.*—A Colour Reaction for Methylfurfural and its Derivatives.
- Groth, Prof. P.*—On Crystal Structure and its Relation to Chemical Constitution.
- Lowry, T. M., D.Sc.*—On Dynamic Isomerism.
- Meyer, Prof. R.*—The Constitution of Phthalein Salts.
- Morrell, R. S., and A. E. Bellars.*—The Oxidation of Carbohydrates by Hydrogen Peroxide in presence of Ferrous Sulphate.
- and *E. K. Hanson.*—Studies in the Dynamic Isomerism of α - and β -Crotonic Acids.

August 22.

- Ackroyd, W.*—On the Bearing of the

BRITISH ASSOCIATION—continued.

- Colour Phenomena presented by Radium Compounds.
- Aschan, Prof. O.*—On the Pentavalent Nitrogen Atom.
- Etard, Dr A.*—Sur les Manganates et les Permanganates.
- Gramont, le Comte A. de.*—Sur la photographie des spectres d'étrille directe des minéraux sulfurés.
- Quelques observations sur le groupement des raies du spectre du silicium d'après l'effet de la self-induction, et sur leur présence dans les spectres stellaires.
- Jones, H. O., D.Sc.*—The Stereochemistry of Nitrogen.
- Ramsay, Sir W., K.C.B., F.R.S.*—Changes produced by the β -rays.
- Stokes, Prof. G. J., M.A.*—A New Theory of the Periodic Law.
- Wedekind, Prof. E.*—The Asymmetric Nitrogen Atom.
- On the Products obtained by the Action of Tertiary Bases on some Acid Chlorides.
- Wolfenstein, Prof. R.*—Pseudomorphosis in Organic Persulfates.
- August 23.
- Barger, G.*—Saponarin, a Glucoside coloured Blue by Iodine.
- Bone, W. A., and R. V. Wheeler.*—The Union of Hydrogen and Oxygen in Contact with a Hot Surface.
- Burgess, C. H., and D. L. Chapman.*—On Active Chlorine.
- Dewar, Sir J., F.R.S.*—On New Low-temperature Phenomena and their Scientific Applications.
- Gabriel, Prof. S.*—Ueber Isocystein (Isothioserin).
- Liversidge, Prof. A., F.R.S.*—Exhibition of Photographs of Sections of an Australian Siderite.
- Perman, E. P., D.Sc.*—The Decomposition and Synthesis of Ammonia.
- Ruhemann, Dr S., and E. R. Watson.*—The Action of Organic Bases on Olefinic Ketonic Compounds.
- Scott, Dr A., F.R.S.*—The Vapour Density of Hydrazine Hydrate.
- The Combining Volumes of Carbon Monoxide and Oxygen.
- The Action of Heat on Oxalates.
- Some Alkyl Derivatives of Sulphur, Selenium, and Tellurion.
- Thomson, W., F.R.S.E.*—On the Presence of Arsenic in the Body and its Secretion by the Kidneys.
- Traube, Prof. I.*—On the Velocity of Osmosis and on Solubility: a Contribution to the Theory of Narcosis.
- Exhibition of Effects produced by precipitating Silver Chromate in Gelatine.

Section C. Geology.

- August 18.
- Report on the Fossiliferous Drift Deposits at Kirmington, Lincolnshire, etc.*
- Harmer, F. W.*—The Great Eastern Glacier.
- Marr, J. E., F.R.S.*—The Geology of Cambridgeshire.
- Spiller, J.*—Recent Coast Erosion in Suffolk—Dunwich to Covehithe.
- Whitaker, W., F.R.S.*—On a Great Depth of Drift in the Valley of the Stour.
- Well Sections in Cambridgeshire.
- Woodward, H. B., F.R.S.*—Note on a Small Anticline in the Great Oolite Series at Clapham, north of Bedford.
- August 19.
- Reports on the Fauna and Flora of the Trias of the British Isles; Life Zones in the British Carboniferous Rocks.*
- Arber, E. A. N., M.A.*—On the Fossil Plants of the Upper Culm Measures of Devon.
- On Derived Plant Petrifications from Devonshire.
- Lamplugh, G. W.*—Note on Lower Cretaceous Phosphatic Beds and their Fauna.
- On Marine Fossils from the Ironstone of Shotover Hill, near Oxford.
- Peach, B. N., F.R.S., and J. Horne, F.R.S.*—The Base-line of the Carboniferous System round Edinburgh.
- Seeley, Prof. H. G., F.R.S.*—On Footprints of Small Fossil Reptiles from the Upper Karroo Rocks of Cape Colony.
- Sollas, Prof. W. J., F.R.S.*—On the Structure of the Silurian Ophiurid *Lapworthura Miltoni*.

BRITISH ASSOCIATION—continued.

Traquair, Dr R. H., F.R.S.—Note on the Fish-remains recently collected by the Geological Survey of Scotland at Salisbury Crags, Craigmillar, Clubbidean Reservoir, and Torduff Reservoir, in the Edinburgh District.

— On the Fauna of the Upper Old Red Sandstone of the Moray Firth Area.

August 22.

Discussion on the Nature and Origin of Earth Movements—

i. Introduction. By *Aubrey Strahan, M.A., F.R.S.*

ii. The Earth Movements in the North-West Highlands. By *Dr John Horne, F.R.S.*

iii. Effects of Earth Movements on Rocks. By *J. J. H. Teall, M.A., F.R.S.*

Report on the Erratic Blocks of the British Isles.

Carter, Rev. W. L., M.A.—River-capture in the Don System.

Fisher, Rev. O., M.A.—On the Elephant Trench at Dewlish, Dorset: Was it a Pitfall?

Greenly, E.—Notes on the Glaciation of Holyhead Mountain.

Kendall, Prof. P. F.—Evidence in the Secondary Rocks of Persistent Movement in the Charnian Range.

August 23.

Reports on Geological Photographs; the Movements of Underground Waters of North-west Yorkshire.

Backstrom, Dr H.—On the Origin of the Great Iron-ore Deposits of Lapland.

Busz, Prof. K.—On the Granite from Gready, near Luxullian, in Cornwall, and its inclusions.

Greenly, E.—The Lava-Domes of the Eifel.

Harker, A., F.R.S.—Exhibition of Specimens of Tertiary Plutonic

Rocks (including Gneisses) from the Isle of Rum.

Miers, Prof. H. A., F.R.S.—Concretions as the Result of Crystallisation.

Rastall, R. H., B.A.—Basic Patches in the Granite of Mount Sorrel, Leicestershire.

Solly, R. H., M.A.—A Preliminary Description of Three New Minerals and some Curious Crystals of Blende from the Lengenbach Quarry, Binnenthal.

Spencer, L. J., M.A.—On the Different Modifications of Zircon.

August 24.

Report on the Exploration of Irish Caves.

Carter, Rev. W. L., M.A.—The Glaciation of the Don and Dearne Valleys.

Davies, H. N.—The Discovery of Human Remains under Stalagmite in Gough's Cave, Cheddar, Somerset.

Gibb, A. W.—On the Occurrence of Pebbles of White Chalk in Aberdeenshire Clay.

Irving, A., D.Sc.—Note on certain High-level or Plateau Gravels on the North Side of the Tamisian Area, and their Connection with the Tertiary History of Central England.

Kendall, Prof. P. F.—Exhibition of a Model of the Cleveland Area, showing Glacier Lakes.

Marshall, Dr H., F.R.S.—Some Remarkable Occurrences of Struvite Crystals.

Parkinson, J.—The Geology of the Oban Hills, Southern Nigeria.

Rastall, R. H., B.A.—On Boulders from the Cambridge District, collected by the Sedgwick Club.

Shoolbred, J. N., B.A.—On Tidal Action in the Mersey in Recent Years.

Section D. Zoology.

August 18.

Keeble, Prof. F. W.—The Coloration of Marine Crustacea.

Scott, Prof. W. B.—The Miocene Ungulates of Patagonia.

August 19.

Reports on the Occupation of a Table at

the Zoological Station, Naples; the *Index animalium*; the Influence of Salt and other Solutions on the Development of the Frog; the Colour Physiology of Higher Crustacea; the Coral Reefs of the Indian Ocean; the Occupation of a Table at the Marine Laboratory, Plymouth; the Zoology of the Sand-

BRITISH ASSOCIATION—continued.

- wich Islands; the Madreporaria of the Bermuda Islands.
- Bateson, W.*, F.R.S.—Fowls and Sweet Peas.
- Biffen, R. H.*—An "Intermediate" Hybrid in Wheat.
- Darbishire, A. D.*—On the Result of Crossing Japanese Waltzing with Albino Mice.
- Hurst, C. C.*—Experiments on Heredity in Rabbits.
- Lock, R. H.*, B.A.—Experiments on the Behaviour of Differentiating Colour-characters in Maize.
- Punnett, R. C.*—Experiments on Heredity in Fowls.
- Raynor, Rev. G. H.*, and *L. Doncaster*.—Experiments on Heredity and Sex-determination in *Abraxas grossulariata*.
- Savanders, Miss E. R.*—Heredity in Stocks.
- Staples-Brown, R.*—Experiments on Heredity in Web-footed Pigeon.

August 22.

- Andrews, Dr C. W.*—Egyptian Eocene Vertebrates and their Relationships, particularly with regard to the Geographical Distribution of Allied forms.
- Calkins, Prof. G. N.*—*Cytorycytes variolæ* Guarnieri: the Organism of Small-pox
- Farran, G. P.*—Some New Copepoda from the Atlantic Slopes.
- Holt, E. W. L.*, and *W. M. Tattersall*, B.Sc.—Some New and Rare Schizopoda from the Atlantic Slope, on the West of Ireland.
- Jenkinson, J. W.*, M.A.—On the Fertilisation of the Egg of the Axolotl.
- Keibel, Prof. F.*—"Normentafeln" of the Development of Vertebrata.
- On the Embryos of Apes.
- Murray, J. A.*, M.B.—Certain Biological Aspects in the General Pathology of Malignant New Growths
- Shipley, A. E.*, F.R.S.—On Professor Loos's recent Researches on *Ankylostoma* (The Miner's Worm).
- Tattersall, W. M.*, B.Sc.—Some New and Rare Isopoda taken in the British Area.
- On a New Species of *Dolichoglossus*.

August 23.

- Bles, E. J.*, M.A.—Notes on the Development of *Phyllomedusa hypochondrialis* (Daud).
- The Hatching of Anuran Tadpoles.
- Bryce, Dr T. H.*—The Histogenesis of the Blood of the Larva of *Lepidosiren*.
- Kerr, J. G.*—Note on the Developmental Material of *Polypterus* obtained by the late Mr J. S. Budgett.
- Minot, C. S.*, LL.D.—Rejuvenation.
- An Experiment with Telogony.
- The Harvard Embryological Collection.
- Nuttall, G. H. F.*, F.R.S.—The Precipitin Test in the Study of Animal Relationships.
- Osborn, Prof. H. F.*—The Evolution of the Horse.
- Poulton, Prof. E. B.*, F.R.S.—The Mimetic Resemblance of Diptera for Hymenoptera.

August 24.

- Hartog, Prof. M.*—On the Elucidation of Cellular Fields of Force by Magnetic Models.
- Demonstration of Cytoplasmic Figures in Segmenting Eggs of *Rynchelmis* (Prof. Vejdosky).
- Jenkinson, J. W.*—The Effects Produced by Growing Frog Embryos in Salt and other Solutions.
- M'Intosh, Prof.*, F.R.S.—On the Pacific, Atlantic, Japanese, and other "Palolos."

Section E. Geography.

August 18.

- Cronin, Rev. H. S.*, B.D.—Ptolemy's Map of Asia Minor: Method of Construction.
- Hogarth, D. G.*, M.A.—Cyrene: an Illustration of the Bearing of Geography on History.

August 19.

- Burdon, Major J. A.*, F.R.G.S.—The Fulani Emirates of Northern Nigeria.
- Close, Major C. F.*, C.M.G.—Methods of Topographical Survey.

BRITISH ASSOCIATION—*continued.*

- Déchy, M. de.*—The Glaciers of the Caucasus.
White, A. S.—Scenes and Studies in the Nile Valley.

August 22.

- Report* on Terrestrial Surface Waves.
Anderson, T., B.Sc.—The Lipari Islands and their Volcanoes.
Hill, A. W., M.A.—A Journey around Lake Titicaca.
Hunt, Rev. A., M.A.—Brunanburh: Identification of this Battle Site in North Lincolnshire.
Rabot, C.—Glacier-bursts.

August 23.

- Andrews, A. W.*—A Geographical

Object Lesson: Passes of the Alps.

- Beazley, C. R., M.A.*—The First True Maps.
Bruce, W. S.—The Scottish Antarctic Expedition.
Günther, R. T., M.A.—Exhibit of Maps and Photographs showing Effects of Earth Movements near Naples; with a Note on the Area affected by them.
Lepper, R. S., M.A.—Notes on the Malabar Coast of India.
Mill, H. R., D.Sc.—On the Nomenclature of the Physical Features of England and Wales.
Oldham, H. Y., M.A.—Changes in the Fen District.
Yapp, Prof. R. H., M.A.—Vegetation of the Fen District.

Section F. Economic Science and Statistics.

August 18.

- Bowley, A. L., M.A.*—Tests of National Progress.
Edgeworth, Prof. F. Y., D.C.L.—A Moot Point in the Theory of International Trade.
Flux, Prof. A. W., M.A.—The Influence of Agricultural Improvements on Rent.

August 19.

- Dietzel, Prof. H.*—Free Trade and the Labour Market.
Guyot, Y.—The Incidence of Protective Duties on the Industry and Food Supply of France.
Lots, Prof. W.—The Effect of Protection on some German Industries.
Price, L. L., M.A.—Economic Theory and Fiscal Policy.

August 22.

- Report* on the Accuracy and Comparability of British and Foreign Statistics of International Trade.
Bosquet, Mrs.—The Economic Importance of the Family.

- Hutton, J. A.*—Cotton Growing in the Empire.

August 23.

- Atwater, Prof.*—Investigations on the Nutrition of Man.
Baines, J. A., C.S.I.—The Relation between Population and Area in India.
Fisher, Mrs.—The Town Housing Question.
Horsfall, T. C.—The Development of Towns.
Low, S., B.A.—The Increase of Suburban Populations.
Mahaim, Prof. E.—Changes in Nominal and Real Wages in Belgium.

August 24.

- Adams, W. G. S.*—The Modification of the Income-tax.
Ellinger, B.—A proposed Substitute for the Sugar-tax.
Hamilton, C. J.—Some Features of the Labour Question in America.
Roberts, H. A., M.A.—The Employment of the Graduate.

Section G. Engineering.

August 18.

- Ayrton, Mrs H.*—The Origin of Sand Ripples.

August 19.

- Clerk, D.*—Flame Temperatures in Internal Combustion.

- Dixon, Prof. H. B., F.R.S.*—On the Specific Heat of Gases at High Temperatures.
Hayward, J. W., M.Sc.—The Effect of Receiver Drop in a Compound Engine.
Hopkinson, Prof. B., M.A.—Exhaust Gas Calorimetry.

BRITISH ASSOCIATION—*continued*.

Peake, A. H., B.A.—Superheated Steam: Wire-drawing and other Experiments.

August 22.

Fleming, Prof. J. A.—On Large Bulb Incandescent Electric Lamps as Secondary Standards of Light.

Merz, C. H., and W. M'Lellan.—The Use of Electricity on the North-Eastern Railway and on Tyneside.

Morley, W. M., and A. G. Hansard.—Energy Losses in Magnetising Iron.

Paterson, C. C.—Some Investigations on the Ten-candle Power Harcourt Pentane Lamp made at the National Physical Laboratory.

Sumpner, W. E., and R. W. Weekes.—Testing Alternating-current Induction Motors by a Hopkinson Method.

Swinton, A. A. C.—Electricity from Water-Power.

Thornton, W. M.—Distribution of Magnetic Induction in Multipolar Armatures.

August 23.

Report on the Tidal Régime of the River Mersey.

Arnold, Prof. J. O.—The Effect of Rapidly Alternating Stresses on Structural Steels.

Brown, Major Sir H., K.C.M.G.—The Control of the Nile.

Callendar Prof. H. L., F.R.S.—Indicator Tests on a small Petrol Engine.

Hadfield, R. A.—The Production of Magnetic Alloys from Non-magnetic Metals.

Wicksteed, J. H.—A Universal Testing Machine of 300 tons for Full-sized Structural Members.

August 24.

Casey, J.—The proposed Barrage of the River Thames.

Cramp, W.—Testing Alternate-current Motors by Continuous Current.

Darwin, H., F.R.S., and C. V. Burton.—Side Slip in Motor Cars.

—An Electric Temperature Alarm.

Hedges, K.—The Action of Lightning Strokes on Buildings.

Wilson, Prof. E.—The Electrical Conductivity of certain Aluminium Alloys as affected by Exposure to London Atmosphere, and a Note on their Micro-structure.

Section H. Anthropology.

August 18.

Hall, R. N.—Recent Explorations at Great Zimbabwe.

Montelius, Prof. O.—The Evolution of the Lotus Ornament.

Petrie, Prof. W. M. F., F.R.S.—Note on the Entomology of Scarabs.

—Excavations at Ehnasya in Egypt, with special reference to a Series of Roman Lamps.

August 19.

Discussion on Physical Deterioration and Anthropometric Survey.

Interim Report on the Present State of Anthropological Teaching.

Report on Anthropometric Investigation in Great Britain and Ireland.

Cunningham, Prof. D. J., F.R.S.—The Alleged Physical Deterioration of the People.

Gray, J., B.Sc.—An Anthropometric Survey: its Utility to Science and to the State.

Shrubbsall, F. C., M.D.—A Comparison of the Physical Characters of

Hospital Patients with those of Healthy Individuals from the same Areas, with Suggestions as to the Influence of Selection by Disease on the Constitution of City Populations.

Thurston, E.—The Progress of the Ethnographic Survey of Madras.

Tocher, J. F., F.I.C.—Recent Anthropometric Work in Scotland.

—The Distribution and Variation of the Surnames in East Aberdeenshire in 1696 and 1896.

August 22.

Bryce, T. H., M.D.—On a Phase of Transition between the Chambered Cairns and Closed Cysts in the South-west corner of Scotland.

Coles, F. R., and T. H. Bryce, M.D.—On an Interment of the Early Iron Age found at Moredun, near Edinburgh.

Garstang, J., B.Litt.—The so-called Tomb of Mena at Negadeh in Upper Egypt.

BRITISH ASSOCIATION—*continued.*

- Günther, R. T., M.A.*—The Cimaruta, a Neapolitan Charm.
Howitt, A. W.—On Group-Marriage in Australian Tribes.
Lepper, R. S., LL.M.—The Passing of the Matriarchate.
Poulton, Prof. E. B., F.R.S.—Records of Palæolithic Man from a New Locality in the Isle of Wight.
Ridgeway, Prof. W., M.A.—An Anthropological View of the Origin of Tragedy.
Temple, Sir R., Bart., C.I.E.—A Plan for a Uniform Scientific Record of the Languages of Savages.

August 23.

- Report* on Archaeological and Ethnographical Explorations in Crete.
Bosanquet, R. C., M.A.—Excavations at Heleia (Palaikastro) and Praisos in Eastern Crete.
 — A Find of Copper Ingots at Chalcis.
Conway, R. S., Litt.D.—The Linguistic Character of the Eteocretan Language.
Davkins, R. M., B.A.—Painted Vases of the Bronze Age from Palaikastro.
Evans, A. J., F.R.S.—Preliminary Scheme for the Classification and approximate Chronology of the Periods of Minion Culture in Crete, from the close of the Neolithic to the Early Iron Age.
Kabbdias, Dr P.—Note on Prehistoric Archaeology in Greece.
Montelius, Prof. O.—The Geometric Period in Greece.
Schmidt, Prof. V.—The Latest Discoveries in Prehistoric Science in Denmark.

August 24.

- Reports* on the Lake Village at Glastonbury; Excavations on Roman Sites in Britain.
Demolins, E.—Classification Sociale.
Gomme, G. L., F.S.A.—The Bee Cult in British Folklore.
Hartland, E. S.—On a Votive Offering from Korea.
Layard, N. F.—Further Excavations on a Palæolithic Site in Ipswich.
Martin, E. F.—Notes on the Fulahs of Nigeria.
Rivers, Dr W. H. R.—Some Funeral Customs of the Todas.

Sub-section of Anthropography.

August 22.

- Report* on Anthropometric Investigations among the Native Troops of the Egyptian Army.
Duckworth, W. L. H., M.A.—A Note on the Brain of a Fœtal Gorilla.
 — Graphical Representation of the various Racial Human Types.
Gray, J., B.Sc.—Anthropometric Identification: a New System of Classifying the Records.
Laidlaw, P. C.—Some Varieties of the Os Calcis.
Macalister, Prof. A., F.R.S.—Exhibit of Amorite Crania.
Myers, C. S., M.D.—The Variability of Modern and Ancient Peoples.
Parsons, F. G.—Facial Expression.
Sewell, R. B. S., B.A.—Some Variations in the Astragalus.
Smith, G. E., M.D.—The Persistence in the Human Brain of certain Features usually supposed to be distinctive of Apes.

Section I. Physiology.

August 18.

- Dixon, Dr W. E.*—The Effect of Alcohol on the Heart.
Macwilliam, Prof. J. A.—On Reflexion and Direct Response to Galvanic and Faradic Currents.
Starling, Prof. E. H., F.R.S.—On the Relation of Trypsinogen to Trypsin.
Thompson, Prof. W. H., M.D.—On the Metabolism of Arginin.

August 19.

- Discussion* on Oxidation and Functional Activity.

August 20.

- Hankin, Dr E. H.*—The Spread of Plague.
Myers, Dr C. S.—Recent Development of Helmholtz's Theory of Hearing.
Rivers, W. H., M.D.—Observations on the Senses of the Todas.

BRITISH ASSOCIATION—continued.

Vaschide, Dr N.—Experimental Investigations on Memory. The Localisation of Remote Memories.

August 22.

Discussion on Conduction and Structure in the Nerve-arc and Nerve Cell.

Edridge-Green, Dr F. W.—The Necessity of a Lantern Test as the Official Test for Colour Blindness.

Schäfer, Prof. E. A., F.R.S.—On Methods of Artificial Respiration.

August 23.

Atwater, Prof. W. O.—Investigations on the Nutrition of Man.

Johannson, Prof. J. E.—The Metabolism of different Carbohydrates.

Kossel, Prof. A., and H. D. Dakin.—On Protamines.

Laidlaw, P. P., B.A.—Some Observations on Blood Pigments.

Macallum, Prof. A. B., Ph.D.—On the Distribution of Potassium in Animal and Vegetable Cells.

August 24.

Reports on the Metabolism of the Tissues; the State of Solution of Proteids; the Physiological Effects of Peptone and its Precursors.

May, Dr W. P., and Prof. E. Smith.—Motor Localisation in the Lemur.

— On Descending Thalamus Tracts.

Sherrington, Prof. C. S., F.R.S., and Miss S. C. M. Sowton.—The Effect of Chloroform on the Heart.

Strangeways, Dr T. S. P.—A Committee of Pathological Research.

Woodhead, Prof. G. S., M.D.—Joint-ill in Foals.

Section K. Botany.

August 18.

Interim Report on a Monograph of the Genus *Potamogeton*.

Reports on the Respiration of Plants; the Registration of Botanical Photographs; Experimental Studies in the Physiology of Heredity.

Arber, E. A. N., M.A.—A New Feature in the Morphology of the Fern-like Fossil *Glossopteris*.

Baker, R. T., F.L.S.—Exhibition of Specimens illustrating (1) the Comparative Constancy of Specific Characters of Eucalypts; (2) the Relation between the Leaf Venation and the Oil Constituents.

Bertrand, Prof. C. E., and Prof. F. Cornaille.—Observations on Structure of the Leaf-trace of Inversicatenate Filicinae.

Boodle, L. A.—On Reduction of the Gametophyte in *Todea*.

Ford, Miss S. O.—The Anatomy of *Psilotum triquetrum*.

Hill, A. W., M.A.—On some *Peperomia* Seedlings.

Hill, T. G.—On the Presence of Parichnos in Recent Plants.

Lang, W. H., D.Sc.—On the Reduction of the Marchantiaceous Type in *Cyathodium*.

Scott, D. H., F.R.S.—A New Type of Sphenophyllaceous Cone from the Lower Coal Measures.

Scott, D. H., F.R.S., and E. A. N. Arber, M.A.—On some New Lagenostomas.

Stapf, Dr O.—Exhibition of Fruits of *Melocanna*, *Melocalamus*, and *Ochlandra*.

Stokes, M. C., B.Sc.—Seed-coats of Cycads.

Wager, H. A., A.R.C.S.—Observations on Secondary Thickening in *Amaranthus spinosus*.

August 19.

Chodat, Prof. R.—Exhibition of Pure Cultures of Algae.

Clark, J., B.Sc.—Mechanical Advantage among Plant Organs.

Engler, Prof. A.—Plants of the Northern Temperate Zone in their Transition to the High Mountains of Tropical Africa.

Klebs, Prof. G.—On the Artificial Formation of a New Race.

Lewis, F. J., F.L.S.—Interglacial and Postglacial Beds of the Cross Fell District.

Lotsy, Dr J. P.—The Virgin-woods of Java.

Scott, Mrs D. H.—Exhibition of Kammatograph Photographs showing the Movements of Plants.

Smith, W. G., B.Sc.—Botanical Survey of Britain.

Tansley, Prof. A. G., F.L.S.—On the Problems of Ecology.

BRITISH ASSOCIATION—continued.

Wager, H., F.R.S.—The Present State of our Knowledge of the Cytology of the Cyanophyceæ.

West, Prof. G. S.—Exhibition of Microphotographs of Freshwater Plankton.

Woodhead, T. W.—Observations on the Biology and Distribution of Woodland Plants.

August 22.

Avebury, Lord, F.R.S.—On the Forms of Stems of Plants.

Blackman, V. H., and Miss H. C. I. Fraser.—On the Development of the *Acidium of Uromyces poæ*, and on the Life-History of *Puccinia malvacearum*.

Eriksson, Prof. J.—On the Vegetative Life of some *Uredineæ*.

Ward, Prof. H. M., F.R.S.—On Recent Researches on Parasitic Fungi.

August 23.

Blackman, Dr F. F., and Miss Matthæi.—Sunshine and CO₂ Assimilation: an Account of Experimental Researches.

Blakeslee, Dr A. F.—Sexuality in Zygospore Formation.

Czapek, Prof. F.—On the Significance of the so-called Anti-ferment Reaction in Geotropically Stimulated Roots.

Errera, Prof. L.—Struggle for Pre-eminence and Inhibitory Stimuli in Plants.

— Some General Results of the Localisation of Alkaloids in Plants.

Lotsy, Dr J. P.—The Discovery of a New Alkaloid in *Strychnos nux vomica*.

Vines, Prof. S. H., F.R.S.—On the Proteases of Plants.

August 24.

Barger, G.—Saponarine ("Soluble Starch").

Barker, B. T. P., M.A.—The Structure of the Ascocarp in the Genus *Monascus*.

— Further Observations on the Ascocarp of *Ryparobius*.

Biffen, R. H., M.A.—The Inheritance of Susceptibility and Immunity to the Attacks of Yellow Rust.

Buller, A. H. R., D.Sc.—The Destruction of Wooden Paving Blocks by the Fungus *Lentinus lepideus* Fr.

— The Reactions of the Fruit-Bodies

of *Lentinus lepideus* r. to External Stimuli.

Burdon, E. R., B.A.—Pineapple Galls of the Spruce.

Chodat, Prof. R.—Oxidising Enzymes and Katalases in Plants.

Darbishire, Dr O. V.—On the Transpiration Stream in Small Plants.

Durand, Dr E. J.—Some Features in the Development of the *Geoglossaceæ*.

Evans, T. B. P.—On the Normal Histology of the Uredo of *Puccinia glumarum*.

Fujii, Prof. J.—On the Pollination of Gymnosperms.

Macfarlane, Prof. J. M.—The History and Distribution of Catesby's Pitcher Plant (*Sarracenia Catesbei*).

— Observations on Two Species of Alpine Rose and their supposed Hybrids.

— Exhibition of a Bigeneric Hybrid between *Gymnadenia* and *Nigritella*.

Maudslayi, A. P.—A Measurement of the Great Swamp Cypress at Santa Maria del Tule, Mexico.

Miyake, K., M.A.—On the Centrosome of the Hepaticæ.

Parkin, J., M.A.—On a Brilliant Pigment appearing after Injury in Species of *Jacobinia* (N.O. Acanthaceæ).

Peirce, Dr G. J.—The Dissemination and Germination of *Arceuthobium occidentale*.

Salmon, E. S., F.L.S.—Further Cultural Experiments with "Biologic Forms" of the *Erysiphaceæ*.

Sub-section of Agriculture.

August 18.

Atwater, Prof.—The Organisation of Agricultural Research in America.

Biffen, R. H., M.A.—The Improvement of Wheats and Mendel's Laws.

Elliot, R. H.—The Clover Mystery: a Probable Solution.

Wilson, J. H., D.Sc.—Hybridisation of Cereals.

August 19.

Dymond, T. S., F.I.C., and G. Clarke, A.I.C.—The Determination of the Availability of Insoluble Phosphate in Manures.

— **F. Hughes, and C. Jupe.**—The Influence of Sulphates as Manure

BRITISH ASSOCIATION—*continued.*

- upon the Yield and Feeding-value of Crops.
- Hall, A. D., M.A.*—Analysis of the Soil by means of the Plant.
- The Probable Error of Agricultural Field Experiments.
- Middleton, Prof. T. H., M.A.*—The Improvement of Poor Clay Soils by White Clover and other *Leguminosæ*.
- Russell, E. J., D.Sc., and N. Smith, M.Sc.*—A New Method of Forming Nitrites and Nitrates.
- Wood, T. B., M.A., and R. A. Berry, F.I.C.*—The Chemical Composition of Different Varieties of Mangels.
- Variation in the Chemical Composition of Mangels.

Section L. Educational Science.

August 18.

- Jones, Miss E. E. C.*—The Present Educational Position of Logic and Psychology.
- Körösy, Dr J. de.*—Comparison of the Intellectual Power of the Two Sexes.
- Molloy, Right Rev. G., D.Sc.*—The Teaching of Experimental Science in the Secondary Schools of Ireland.

August 19.

- Discussion* on School-leaving Certificates.
- Report* on the Influence of Examinations.
- Hall, A. D., M.A.*—The Need of Scientific Method in Elementary Rural Instruction.
- Leonard, J. H., B.Sc.*—Specialisation in Science Teaching in Secondary Schools.

Mackinlay, Lt.-Col. G.—Short Description of "Realistic Arithmetic."

August 22.

- Discussion* on the Training of Teachers and the Local Education Authorities.
- Armstrong, Prof. H. E., F.R.S.*—The Research Method applied to Experimental Teaching.

August 23.

- Discussion* on Methods of Imparting Manual Instruction in Schools.
- Reports* on the Courses of Experimental, Observational, and Practical Studies most Suitable for Elementary Schools; the Conditions of Health essential to the carrying on of the Work of Instruction in Schools.

THE SOCIETY FOR THE ENCOURAGEMENT OF
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JOHN STREET, ADELPHI.

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Meetings.—The Anniversary takes place in June in each year. Between 70 and 80 Meetings are held during the Session.

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Lectures and Papers read during Session 1904–1905. Reports of all appear in the weekly "Journal" of the Society, price 6d.

Abel, C. D.—The Patent Laws. Dec. 14.

Anderson, A. H.—The Decline of the Country Town. Feb. 15.

Bayley, R. L.—Time Development in Photography, and Modern Mechanical Methods of carrying it out. Feb. 8.

Blakley, D. J.—Musical Wind Instruments. Four Lectures. Nov. 28; Dec. 5, 12, 19.

Bond, F. B., F.R.I.B.A. — West Country Screens and Rood Lofts. Mar. 21.

Borland, J. E.—Some Misconceptions of Musical Pitch. Feb. 22.

Brenan, B., C.M.G. — British Commercial Prospects in the Far East. Jan. 24.

Burton-Brown, Mrs.—Recent Excavations in Rome. May 3.

Clerk, D.—Internal Combustion Engines. Four Lectures. Feb. 13, 20, 27; Mar. 6.

Cole, S. C., C.B.—Some Aspects of Ancient and Modern Embroidery. Two Lectures. May 1, 8.

Creighton, C., M.D.—Plague in India. May 18.

Elliot, Sir C. A., K.C.S.I., LL.B.—The Indian Census of 1901. Feb. 16.

Freshfield, D. W.—The Gates of Tibet. Jan. 19.

Fryer, Sir F., K.C.S.I. — Burma. Dec. 8.

Gardner, J. S. — The Monumental Treatment of Bronze. May 2.

Hall, H. R. H., M.A.—Excavation of the Oldest Temple at Thebes. May 16.

Hall, R. N.—Ancient Architecture of the Great Zimbabwe. Apr. 5.

Hankin, E. H.—The Method of Design in Mohammedan Art. Mar. 15.

Hedges, K., M.I.C.E.—Modern Lightning Conductors. May 24.

Hodson, T. C.—Manipur and its Tribes. Mar. 16.

Jackson, T. G., R.A.—Street Architecture. Dec. 20.

James, Capt. L.—Wireless Telegraphy and War Correspondence. Jan. 18.

James, Hon. W. H., K.C.—The Manufactures of Greater Britain. II.—Australasia. Mar. 28.

Johnston, E., and **G. Hewitt**,—Calligraphy and Illumination. Jan. 31.

Just, C. F.—The Manufactures of Greater Britain. I.—Canada. Feb. 28.

Kennedy, Sir C. M., K.C.M.G., C.B.—The Present Aspect of the Fiscal Question. Mar. 22.

Lee, A., J.P.—The British Canals Problem. Nov. 30.

Maginnis, J. P., A.M.I.C.E., M.I.M.E.—Reservoir, Stylographic and Fountain Pens. Three Lectures. Jan. 23, 30; Feb. 6.

Maxwell, Right Hon. Sir H., Bart., M.P.—British Woodlands. Mar. 29.

- Milne, G. T.*, F.R.G.S.—The Industrial Resources of the State of Matto Grosso, Brazil. Apr. 12.
- Morgan, B. H.*—The Systematic Promotion of British Trade. Nov. 23.
- Mountmorres, Viscount.*—The Native Races of the Unknown Heart of Central Africa. May 10.
- Phillips, S. C.*, M.S.C.I.—The Use of Wood Pulp for Papermaking. May 17.
- Porter, Hon. R. P.*—London Electric Railways. Jan. 25.
- Preece, Sir W. H.*, K.C.B., F.R.S.—The Navigation of the Nile. Feb. 1.
- Ravenshaw, H. W.*, A.M.I.C.E., M.F.I.M.E.—The Uses of Electricity in Mines. Two Lectures. May 15, 22.
- Reid, W. F.*, F.C.S.—The International Exhibition at St Louis. Dec. 7.
- Scott, Sir J. G.*, K.C.I.E.—The Prospects of the Shan States. Apr. 6.
- Spielmann, J.*, F.S.A.—The British Art Section of the St Louis Exhibition. Mar. 1.
- Spielmann, M. H.*, F.S.A.—The Queen Victoria Memorial as compared with other Royal Memorials. Feb. 21.
- Suyematsu, Baron K.*, B.A., LL.M.—Ethics of Japan. Mar. 8.
- Thomas, C.*—The Production of an Illustrated Newspaper. Two Lectures. Jan. 4, 11.
- Tozer, H. J.*, M.A.—The Manufactures of Greater Britain.—III. India. May 11.
- Webb, H. L.*—Telephony. Four Lectures. Mar. 13, 20, 27; Apr. 3.

ROYAL ASIATIC SOCIETY,

22 ALBEMARLE STREET, W.

Officers.—*President*: The Right Hon. Lord Reay, G.C.S.I. *Secretary*: Miss C. Hughes.

Meetings.—Monthly (second Tuesday), from November to June inclusive, 4 P.M. The Anniversary Meeting takes place in May.

Membership.—Annual Subscription: Resident Members, £3, 3s.; Non-Resident Members, £1, 10s. No Entrance Fee.

Publications.—The *Journal*, published quarterly, 12s. per number, or 30s. subscription in advance (free to Members). *Oriental Translation Fund Volumes* and *Asiatic Society Monographs*, one Vol. each annually.

THE VICTORIA INSTITUTE, or PHILOSOPHICAL SOCIETY OF GREAT BRITAIN,

8 ADELPHI TERRACE, W.C. (FOUNDED 1865.)

Officers.—*President*: Right Hon. the Earl of Halsbury, F.R.S. *Secretary*: Prof. E. Hull, M.A., LL.D., F.R.S.

Meetings.—Alternate Mondays during the Session at 4.30 P.M. Anniversary Meeting, June 7, 1905.

Membership.—Members, no Entrance Fee, Two Guineas Annual Subscription; Associates, One Guinea Annual Subscription.

Papers read during Session 1904–1905, and issued in the "Journal," Vol. XXXVII. (price 21s. to Non-Members).

Elwin, Rev. A.—Confucianism.
Frost, E. P.—The Influence of Physiological Discovery on Thought.

Girdlestone, Canon.—The Resurrection.
Griswold, Rev. H. G.—The Messiah of Quadian.

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| <p><i>Hendley, Col. T. H.</i>—The History of Rajputana.</p> <p><i>Jervis, Cavaliere W. P.</i>—Minerals of the Old Testament.</p> <p><i>Mackinlay, Col. G.</i>—Biblical Astronomy.</p> <p><i>Turner, Rev. F. S.</i>—The right way in Psychology.</p> | <p><i>Upham, Dr W.</i>—The Planetesimal Theories of the Earth's Origin.</p> <p><i>Warring, C. B.</i>—Geological Extinctions.</p> <p><i>Whiting, Rev. J. B.</i>—The Growth of the Kingdom of God.</p> |
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IMPERIAL INSTITUTE,

SOUTH KENSINGTON, LONDON, S.W.

Officers.—*Director*: Prof. Wyndham R. Dunstan, M.A., LL.D., F.R.S.
Principal Assistant, Scientific and Technical Department: T. A. Henry, D.Sc.
Superintendent of Colonial Collections: W. G. Freeman, B.Sc., F.L.S.
Superintendent Indian Section: C. E. Jones, B.Sc.

The Imperial Institute was transferred to the management of the Board of Trade by Act of Parliament in 1902.

The Imperial Institute includes Exhibition Galleries containing collections of products and manufactures illustrating the natural resources and industries of India and the Colonies; the Scientific and Technical Department, with extensive laboratories for the investigation and valuation of natural products with a view to their commercial utilisation; Colonial Conference Rooms, and a Reference Library and Reading Rooms, containing the principal newspapers and official publications of India and the Colonies.

The Indian and Colonial Collections are open free to the public daily (Sundays excepted) from 10 A.M. till 5 P.M. (4 P.M. in winter). Pamphlets, handbooks, etc., containing information respecting the resources of India and the Colonies, and particulars as to emigration and settlement, may be obtained on application at the Central Stand in the Exhibition Galleries, where verbal inquiries may also be made.

Special arrangements may be made by schools and institutions who desire to visit the Indian and Colonial Collections for educational purposes.

The British Women's Emigration Association and the Colonial Nursing Association have been provided with offices in the Imperial Institute. The Imperial Institute also works in co-operation with the Emigrants' Information Office established by the Colonial Office, and with the Commercial Intelligence Branch of the Board of Trade.

The *Bulletin of the Imperial Institute* is published quarterly, price 1s. per number, and may be purchased at the Central Stand.

ROYAL COLONIAL INSTITUTE,

NORTHUMBERLAND AVENUE, W.C.

(FOUNDED 1868; INCORPORATED 1882.)

Patron.—His Majesty the King.

Officers.—*President*: H.R.H. The Prince of Wales, K.G. *Secretary*: J. S. O'Halloran, C.M.G.

Meetings.—Monthly, at 8 P.M., from November to June; occasional Afternoon Meetings are held at 4.30 P.M. The Anniversary Meeting takes place in February or March.

Membership.—Resident Fellows: Entrance Fee, £3; Annual Subscription, £2; Life Subscription, £20, or, after Five Years' Subscription of £2, £15. Non-Resident Fellows: Entrance Fee, £1, 1s.; Annual Subscription, £1 1s.; Life Subscription, £10. British subjects only eligible.

Publications.—*Proceedings*, published annually in July (price 7s. 6d.); and the *Journal*, published monthly from December to July (price 6d.).

Papers read during Session 1904–1905.

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| <i>Barnett, P. A., M.A.</i> —Problems and Perils of Education in South Africa. Feb. 14. | <i>Ranfurly, The Earl of, G.C.M.G.</i> —New Zealand and its Dependencies. May 9. |
| <i>Bruce, Sir C., G.C.M.G.</i> —The Crown Colonies and Places. Mar. 14. | <i>Reade, H.</i> —English Schools and Colonial Education. How can they be Linked? Feb. 28. |
| <i>Cooke, C. K., M.A., LL.D.</i> —The Emigration of State Children. Mar. 28. | <i>Sadler, Lieut.-Col. J. H., C.B.</i> —Present-day Administration in Uganda. Dec. 18. |
| <i>Harvey, E. A.</i> —Imperialism from an Australian standpoint. Jan. 17. | <i>Spark, W. S.</i> —The Wealth of Canada as an Agricultural Country. Nov. 22. |
| <i>Ireland, Prof. A.</i> —The British Empire in the East. June 6. | <i>Wyatt, H. F.</i> —The Navy and the Empire. Dec. 6. |
| <i>Parkin, G. R., C.M.G., LL.D.</i> —The Rhodes Scholarships. Nov. 8. | |
| <i>Pollock, Sir F., Bart.</i> —Imperial Organisation. Apr. 11. | |

THE AFRICAN SOCIETY.

22 ALBEMARLE STREET, W.

Officers.—*President*: Sir H. H. Johnston, G.C.M.G., K.C.B., D.Sc. *Hon. Secretary*: The Count de Cardi.

Meetings.—Variable. The Anniversary Meeting is held in June.

Membership.—Annual Subscription, 21s.; Life Composition, £15, 15s.

Publications.—*Journal*, published quarterly, price 6s. to non-members. *Notes on a Comparative Table of Berber Dialects*, by G. R. Michell, 2s. 6d.

CITY OF LONDON COLLEGE SCIENCE SOCIETY,

WHITE STREET, MOORFIELDS, E.C.

Officers.—*President*: J. S. Bridges, B.Sc., F.G.S. *Hon. Secretary*: H. N. Gray, 131 Earlham Grove, Forest Gate, E.

Meetings.—Third Friday in each month, from October to May, at 8 P.M.

Membership.—No Entrance Fee; Annual Subscription, 5s.

Publication.—*Journal*, published monthly.

List of Papers read during Session 1904-1905.

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| <p><i>Adams, H.</i>, M.I.C.E.—Screw-cutting. Mar. 17.</p> <p><i>Booth, W. H.</i>—Artesian Wells. Feb. 17.</p> <p><i>Lobley, J. L.</i>—Positive Knowledge. Nov. 18.</p> | <p><i>Scourfield, D. J.</i>, F.R.M.S.—The Locomotion of Microscopic Aquatic Organisms. Jan. 20.</p> <p><i>Whitaker, W.</i>, B.A., F.R.S.—Whitgift's Hospital, Croydon. Apr. 14.</p> |
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HAMPSTEAD SCIENTIFIC SOCIETY,

HAMPSTEAD LIBRARY, PRINCE ARTHUR ROAD, N.W.

Officers.—*President*: Sir Samuel Wilks, Bart., M.D., LL.D., F.R.S. *Hon. Treasurer*: E. Compson Crump. *Hon. Secretary*: C. O. Bartrum, B.Sc., 3 Holford Road, Hampstead. *Astronomical Secretary*: P. E. Vizard, F.R.A.S. *Natural History Secretary*: Dr J. W. Williams, F.L.S. *Photographic Secretary*: H. N. Smart.

Meetings.—General, first Friday in each month from November to May. The Annual General Meeting in February.

Publication.—*Annual Report and Proceedings.*

Papers read during Session 1904-1905.

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| <p><i>Andrews, C. W.</i>, D.Sc.—Fossil Hunting in the Libyan Desert. May. 5.</p> <p><i>Clay, R. S.</i>, B.A., D.Sc.—Peculiarities and Paradoxes of Fluid Motion. Feb. 3.</p> <p><i>Clodd, E.</i>—Savage Philosophy in Folk-Tale. Apr. 7.</p> <p><i>Curwen, H. B.</i>—Platinotype Printing. Apr. 12.</p> <p><i>Dawkins, Prof. Boyd, M.A.</i>, D.Sc., F.R.S.—The Incoming of the Brythons into Britain. Dec. 15.</p> <p><i>Findon, H.</i>—The Five-Banded Snails of London. Dec. 16.</p> <p><i>Goodacre, W.</i>, F.R.A.S.—The Moon. Nov. 18.</p> <p><i>Goodchild, H.</i>—A Naturalist in the Deer Forests. Mar. 10.</p> <p><i>Hartog, M.</i>, D.Sc.—The End and Beginning of Individuality as shown in the Living Cell. June 6.</p> <p><i>Hopson, M. F.</i>, F.L.S., F.E.S.—The Common Cabbage White Butterfly (<i>Pieris brassicæ</i>) and its Life History. May 12.</p> <p><i>Nicholson, C.</i>, F.E.S.—Bog Plants. Nov. 11.</p> | <p><i>Park, Mrs.</i>—Trilobites and their Story. May 12.</p> <p><i>Podmore, F.</i>, M.A.—The Evidence for Spiritualism. Mar. 3.</p> <p><i>Revis, C.</i>—The Rôle of Bacteria in the Production of Milk Products. Jan. 13.</p> <p><i>Small, C. P.</i>—The Essentials of Artistic Photography. Nov. 30.</p> <p><i>Thompson, Prof. S. P.</i>, D.Sc., F.R.S.—Japanese Magic Mirrors. Nov. 2.</p> <p><i>Vizard, P. E.</i>, F.R.A.S.—Some Revelations of the Spectroscope. Nov. 7.</p> <p><i>Wilks, Sir Samuel, Bart.</i>, F.R.S.—Spirals. Apr. 14.</p> <p>—Ambidexterity. May 12.</p> <p><i>Williams, Dr J. W.</i>—The Story of the Barnacle (<i>Lepas anatifera</i>). Dec. 16.</p> <p><i>Wylie, R. W.</i>, M.A.—Early Church Architecture in West Sussex. Jan. 11.</p> <p>—A Chat about Lenses. Mar. 29.</p> <p><i>Yearsley, P.M.</i>, F.R.C.S., F.Z.S.—Studies in Echinoderms. Dec. 16.</p> |
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THE DECIMAL ASSOCIATION,

OXFORD COURT, CANNON STREET, E.C.

Officers.—*President*: Sir S. Montagu, Bart., D.L., J.P. *Vice-Presidents*: Right Hon. Lord Belhaven and Stenton; Lord Kelvin, O.M., P.C., G.C.V.O., F.R.S. *Chairman of Executive Committee*: J. E. Dowson, M.Inst.C.E. *Secretary*: E. Johnson.

Objects.—To promote the adoption of a Decimal System of Weights, Measures, and Coinage in the United Kingdom.

Membership.—Annual Subscription (minimum), 10s.

Publications.—*Reasons why the Metric Weights and Measures should be made Compulsory throughout the British Empire. An Explanatory Chart of the Metric System.*

COUNTRY.

BARROW NATURALISTS' FIELD CLUB AND
LITERARY AND SCIENTIFIC ASSOCIATION,

CAMBRIDGE HALL, BARROW-IN-FURNESS.

Officers.—*President*: M. Stables. *Hon. Secretary*: E. W. Plant, Cambridge Hall.

Meetings.—Every Monday evening, October to March, at 8 P.M., and fortnightly Summer Meetings. The Anniversary Meeting is held in April.

Membership.—Annual Subscription, 5s., and 2s. 6d. for each additional member of the same family. Life Composition, £5, 5s.

Papers read during Session 1904–1905.

Report of the Photographic Section.
Mar. 21.

— of the Botanical Section. Apr.
13.

— of the Geological and Antiquarian
Section. Apr. 27.

— of the Marine Section. Apr.
27.

Allan, F.—Pictorial Development.
Nov. 22.

Angus, W. J.—Lantern Slide Making
for Beginners. Oct. 24.

Buttershaw, G. E., A.M.I.M.E.—A
Visit to the British Westinghouse
Works, Trafford, Manchester.
Feb. 13.

Daniel, F. E., M.R.C.S., L.R.C.P.—
Water in its Relation to Photo-
graphy. Oct. 18.

Dawe, Rev. A. P., M.A.—Ancient
Rome. Dec. 5.

Dunlop, W.—The Sunny South. Nov.
21.

Durie, W., B.L.—The Greatest Happi-
ness Principle. Jan. 23.

Ferguson, J.—Styles of Lettering
suitable for Titling Mounted Prints.
Jan. 17.

— A Visit to Holland. Mar. 28.

Frankland, J.—History of the Photo-
graphic Section. Jan. 17.

Gaythorpe, H., F.S.A. (Scot.)—The
Cranks of Urswick. Mar. 6.

Graham, J., B.Sc.—Soap Bubbles and
the Forces which Mould them.
Feb. 6.

Harris, J.—Napoleon, the Man and
his Achievement. Nov. 14.

Havocridge, A.—Scenery. Feb. 27.

Heath, G. S.—A Peep at Canada. Dec.
12.

Holmes, W. A., M.D.—Vaccination.
Nov. 28.

Kendall, W. B., A.M.I.C.E.—Waste
of Coast Lines, Furness and
Walney, in 1000 years. July 23.

- Kirkpatrick, F. A.*, M.A.—Famous Cities, or Civic Life and its Place in History. The City as Sovereign State—Athens. Oct. 7.
 — The City as Creator of a Nation—Rome and the Latins. Oct. 21.
 — Constantinople. Nov. 4.
 — The Republic of Venice. Nov. 18.
 — French Mediæval Cities. Dec. 2.
 — English Mediæval Cities. Dec. 16.
Linton, G.—Hobbies. Mar. 13.
Marsh, W. R.—The Hand Camera. Nov. 22.
Martin, Miss M.—Patchwork. Jan. 30.
Osborne, J. W.—A Systematic Classification of Negatives. Nov. 22.
Rogers, J.—Irish Humour and Humourists. Nov. 7.
Slater, W. F., F.R.P.S.—Cameras and Lenses. Mar. 17.
Stables, M.—The Summer Excursions. Jan. 16.
Stevens, Rev. A. B., M.A.—A Tour on the Wye. Oct. 31.
Thompson, A. H., M.A.—Short Studies in Nineteenth-Century Novelists, Sir W. Scott. Jan. 13.
 — Jane Austen. Jan. 27.
 — Dickens. Feb. 10.
 — Thackeray. Feb. 24.
 — George Eliot. Mar. 10.
 — George Meredith. Mar. 24.
Thompson, F.—Reminiscences of a Cycling Tour. Mar. 20.
Thornton, E., A.I.E.E.—An Evening with Electrical Experiments. Oct. 25.
Turner, J. E., B.A.—The Rise of Russia. Feb. 20.
Watson, Miss A.—The Social Teaching of Ruskin. Oct. 17.
Welford, W. D.—Rising to the Occasion. Dec. 6.

BATH ROYAL LITERARY AND SCIENTIFIC INSTITUTION,

TERRACE WALKS. (FOUNDED 1825.)

Officers.—*Chairman*: F. Shum, F.S.A. *Hon. Secretaries*: T. F. Plowman, E. C. Davey. *Librarian*: P. S. C. Brewer.

Meeting.—The Anniversary Meeting is held in March.

Membership.—Annual Subscription, £2, 2s.

BATH LITERARY AND PHILOSOPHICAL ASSOCIATION,

Held at, and in connection with, the Institution.

Officers.—*President*: F. Shum, F.S.A. *Chairman*: G. Norman, F.R.S.A.I. *Hon. Secretary*: Mowbray A. Green, 5 Princes Buildings, Bath.

Meetings.—At 8 p.m. on the second and fourth Fridays in each month from November to April. Anniversary Meeting usually in October.

Membership.—Annual Subscription, 10s. 6d.

List of Papers read during Session 1904–1905.

- Begg, C.*, M.B., C.M.—China. Nov. 18.
Gooch, G. P., M.A.—Germany of To-day. Mar. 8.
Green, M. A., A.R.I.B.A.—Garden Cities. Feb. 17.
Macfarlane, J. H.—English Ballads, Ancient and Modern. Mar. 17.
Maynard, Rev. H. L., M.A.—Teneriffe. Dec. 2.
Scott, M. H., I.C.S.—The Round Towers of Ireland. Nov. 4.
Simon, J. A., M.A.—International Arbitration. Jan. 20.
Thackwell, Capt. W. J. de R.—The Philosophy of Fiction. Mar. 31.
Tylee, E. S., M.A.—Co-Education: the System of the Future. Dec. 16.
Wagner, H. A.—The Beauties of an Old Tragedy. Apr. 14.
Ward, J. L., M.A.—The Fate of Aboriginal Races. Feb. 3.

BIRMINGHAM AND MIDLAND INSTITUTE SCIENTIFIC SOCIETY,

BIRMINGHAM AND MIDLAND INSTITUTE.

Officers.—*President*: C. J. Woodward, B.Sc. *Hon. Secretary*: A. Cresswell, Midland Institute.

Meetings.—On Wednesdays at 7.30 P.M.

Membership.—Annual Subscription, 5s. to Members and 10s. to Non-Members of the Midland Institute.

Publication.—*Records of Meteorological Observations, Edgbaston Observatory.* 2s.

Papers read during Session 1904–1905.

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| <i>Barnes, J. H.</i> , B.Sc.—Time. Nov. 30. | <i>Mullins, G. W.</i> —The Nature and possible Origin of Language. Feb. 1. |
| <i>Bridge, Prof. T. W.</i> , M.Sc., Sc.D.—How Fishes talk. Nov. 9. | <i>Poynting, Prof. J. H.</i> , D.Sc., F.R.S.—The Temperature of the Planets. Mar. 1. |
| <i>Button, H. B.</i> —In Western Wales. Jan. 25. | <i>Price, J.</i> , M.I.C.E.—Sewerage. Oct. 19. |
| <i>Caswell, C. B.</i> , F.I.C.—The Chemistry of Plant Poisons. Mar. 22. | <i>Ratcliff, F. D.</i> —Electrolytic Determination of Arsenic in Food-Stuffs. Feb. 22. |
| <i>Davies, B.</i> —Magnetic Space Telegraphy. Nov. 23. | <i>Rosenhain, W.</i> —Lighthouses. Dec. 7. |
| <i>Liverseege, J. F.</i> , F.I.C.—The Theory of "Ions," and Practical Chemistry. Mar. 8. | <i>Russell, T. H.</i> —Moss-Life. Oct. 26. |
| <i>Martineau, P. E.</i> —The Are and the Acre: a History and Comparison. Feb. 8. | <i>Whittles, J. D.</i> , L.D.S.—Photomicrography. Nov. 2. |

BRADFORD PHILOSOPHICAL SOCIETY,

CHURCH INSTITUTE, BRADFORD.

(FOUNDED 1865.)

Officers.—*President*: H. J. Campbell, M.D., F.R.C.P., F.Z.S. *Hon. Secretary*: J. H. Heighton, West Gable, Toller Lane.

Meetings.—On Thursdays during the Winter months at 7.45 P.M. The Anniversary Meeting takes place in April.

Membership.—Entrance Fee for Associates, 5s. Annual Subscription for Family Members, £2, 2s.; for Members, £1, 1s.; for Associates, 10s. 6d.

Papers read during Session 1904–1905.

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| <i>Ayrton, Prof. W. E.</i> , F.R.S.—Energy—American, British, and Japanese. Mar. 2. | <i>Chesterton, G. K.</i> —The Practical Importance of Visions. Feb. 16. |
| <i>Beeching, Rev. Canon, M.A.</i> , D.Litt.—Shakespearian Comedy. Dec. 8. | <i>Holdich, Col. Sir T.</i> —Thibet. Nov. 10. |
| <i>Brown, A. W.</i> , M.A., F.L.S.—The Study of Living Things. Six Lectures. Jan. 12, 26; Feb. 9, 23; Mar. 9, 23. | <i>Sadler, Prof. M. E.</i> , M.A.—The Teaching of Patriotism. Feb. 2. |
| | <i>Seton, E. T.</i> —Wild Animals I have known. Nov. 24. |
| | <i>Tree, Mrs B.</i> —Some Shakespearian Characters. Oct. 13. |

Wessely, Prof. H.—The Violin. Mar. 16.
Wilson, Major Gen. Sir C.—Palestine Exploration. Oct. 27.

Woods, Dr H. G.—Velasquez.—His Life and Times. Six Lectures. Oct. 6 to Dec. 15.

BRADFORD SCIENTIFIC ASSOCIATION, MECHANICS' INSTITUTE, BRADFORD.

Officers.—*President*: S. Margerison. *Hon. Secretary*: G. S. Wallace,
A.M.I.E.E., 78 Horton Grange Road.

Meetings.—Ordinary Meetings on Friday evenings at 7.30 p.m. The Annual Meeting is held in October.*

Membership.—Annual Subscription, 5s.; Ladies, 2s. 6d.

Publications.—*Journal*, issued quarterly. *Economic Plants in the Botanical Gardens, Manningham Park*, 1904. 1d.

List of Papers read during Session 1904–1905.

Presidential Address—A Cruise in Norwegian Fiords. Oct. 14.
Badland, A.—In Quest of Wild Birds. Mar. 10.
Barker, Prof. A. F.—Vegetable Fibres, with Special Reference to Ramie. Mar. 24.
Cudworth, W.—Symbolisms, Pagan and Christian. Oct. 28.
Fortune, R., F.Z.S.—A Naturalist's Rambles with a Camera. Jan. 13.
Gardner, Prof., F.C.S.—Radium and the Genesis of the Elements. Nov. 25.
Gregory, E. E.—The Glacial Lakes of

the Airedale System and their Work. Dec. 9.
Holgate, B., F.G.S.—The Derivation of some Glacial Deposits in North-East Yorkshire. Feb. 3.
Lund, P.—Glimpses of Life and Scenery in Switzerland. Jan. 27.
Preston, W. E.—The Manufacture of Local Flint Implements. Feb. 24.
Spencer, B.—The Origin and Early History of Vegetables. Nov. 4.
Townsend, C.—Garden Cities. Mar. 17.
Winter, W. P., B.Sc.—How the Plants have received their Names. Feb. 17.

BRIGHTON AND HOVE NATURAL HISTORY AND PHILOSOPHICAL SOCIETY,

PUBLIC LIBRARY AND MUSEUM, BRIGHTON.

Officers.—*President*: H. Davey. *Hon. Secretary*: J. C. Clark,
9 Marlborough Place.

Membership.—Entrance Fee, 10s. for Gentlemen; Ladies free; Annual Subscription, 10s. Life Composition, £5, 5s.

Meetings.—On Wednesdays, from October to June, at 8 p.m. Annual Meeting, second Wednesday in June.

Publications.—*Annual Report and Abstract of Proceedings.*

Papers read during Session 1904–1905.

Carter, T. J., L.R.C.P., M.R.C.S.—The History of the Skull. Apr. 28.
Connold, E., F.L.S.—Half a Day on the Sea-shore. Nov. 17.

Davey, H.—The Functions of Music. Oct. 20.
Jenner, J. H. A., F.E.S.—History of the Southdowns. May 18.

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| <p><i>Kensington, Col. E., R.A.</i>—Evolution of Artillery. Mar. 16.</p> <p><i>Newsholme, A., M.R.C.P., M.O.H.</i>—Social Evolution and Public Health. Jan. 13.</p> | <p><i>Payne, E.</i>—A Tour in Spain. Mar. 24.</p> <p><i>Robbins, C., L.D.S.</i>—A Peep at Pre-historic Man. Feb. 17.</p> |
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BURTON-ON-TRENT NATURAL HISTORY AND ARCHÆOLOGICAL SOCIETY,

FRIARS WALK. (FOUNDED 1876.)

Officers.—*President*: C. G. Matthews, F.I.C., F.C.S. *Hon. Secretary*: B. L. Oswell, 5 Balmoral Road.

Meetings.—The third Thursday in each month, from October to April, at 8 P.M. The Anniversary Meeting takes place in October.

Membership.—Annual Subscription, 5s.

Publication.—*Transactions*.

List of Papers read during Session 1904–1905.

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| <p><i>Burton, W. J. P., F.G.S.</i>—The Caverns of Derbyshire. Feb. 17.</p> <p><i>Freeman, Rev. H. B., M.A.</i>—English "Vers de Société." Jan. 19.</p> <p><i>Howarth, W.</i>—Stonehenge. Nov. 17.</p> | <p><i>Matthews, C. G., F.I.C., F.C.S.</i>—The Pyramids. Oct. 27.</p> <p><i>Millard, Rev. E.</i>—British Birds and their Nests. Dec. 15.</p> <p><i>Rye, H. A.</i>—The Haddon Tapestries. Mar. 16.</p> |
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CAMBRIDGE PHILOSOPHICAL SOCIETY,

PHILOSOPHICAL LIBRARY, NEW MUSEUMS.

Officers.—*President*: Prof. H. M. Ward, F.R.S. *Hon. Secretaries*: A. E. Shipley, M.A., F.R.S., Christ's College; G. B. Mathews, M.A., F.R.S., St John's College; P. V. Bevan, M.A., Trinity College. *Librarian*: S. Matthews.

Membership.—Entrance Fee, £1, 1s.; Subscription, £1, 1s.; Composition Fee, £11, 11s.

Meetings.—Fortnightly on Mondays during full Term at 4.30 P.M. The Anniversary Meeting takes place in October.

Publications.—*Proceedings*, three numbers issued annually, 2s. 6d. per part; *Transactions*, issued occasionally at 7s. 6d. per part.

List of Papers read before the Society during the Session 1904–1905.

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| <p><i>Arber, E. A. N.</i>—The Seed-bearing Habit in the <i>Lyginodendrea</i>. (P., xiii. 3.) May 15.</p> <p><i>Berry, A.</i>—On certain Quintic Surfaces which admit of Integrals of the First kind of Total Differentials. (Second Paper.) (T., xx.) Oct. 31.</p> | <p><i>Bevan, P. V.</i>—Some Physical Properties of Sodium Vapour. (P., xiii. 3.) May 1.</p> <p><i>Biffen, R. H.</i>—Crosses between Fully Fertile Varieties of Barley and Varieties bearing Unisexual and Sexless Flowers. (P., xiii. 3.) May 15.</p> |
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- Bumstead, H. A.*—Are Metals made Radio-active by the Influence of Radium Radiation? (*P.*, xiii. 2.) Jan. 30.
- Burdon, E. R.*—The Pine Apple Gall of the Spruce: Note on the Early Stages of its Development. (*P.*, xiii. 1.) Oct. 31.
- Campbell, N. R.*—A Null Method of Measuring Small Ionisations. (*P.*, xiii. 3.) May 1.
- Cooke, H. L.*—Experiments on Penetrating Radiation. (*P.*, xiii. 3.) May 15.
- Doncaster, L.*—The Inheritance of Tortoiseshell and other Colours in Cats. (*P.*, xiii. 1.) Nov. 28.
- On the Maturation of the Egg and Early Development in certain Sawflies (*Tenthredinidae*). (*P.*, xiii. 2.) Mar. 13.
- Evans, I. B. P.*—Infection Phenomena in Various Species of *Uredinæ*. May 15.
- Fenton, H. J. H.*—An Attempted Synthesis of Uric Acid. (*P.*, xiii. 1.) Nov. 14.
- Soluble Sodium Dihydroxytartrate. (*P.*, xiii. 2.) Feb. 27.
- Ferrar, H. T.*—The Old Moraines of South Victoria Land. (*P.*, xiii. 2.) Mar. 13.
- Fisher, O.*—Densities of the Earth's Crust beneath Continents and Oceans Compared. (*P.*, xiii. 2.) Mar. 13.
- Gregory, R. P.*—The Abortive Development of the Pollen in certain Cross-bred Sweet-Peas. (*P.*, xiii. 3.) May 15.
- Hill, A. W.*—Note on some Peculiar Features in Seedlings of *Peperomia*. (*P.*, xiii. 1.) Nov. 28.
- Jones, H. O., and M. B. Thomas.*—Optically Active Nitrogen Compounds. (*P.*, xiii. 1.) Nov. 14.
- Larmor, J.*—On the Dynamical Significance of Kundt's Law of Selective Dispersion in connection with the Transmission of the Energy of Trains of Dispersive Waves. (*P.*, xiii. 1.) Nov. 14.
- Lister, J. J.*—On the Dimorphism of the English Species of *Nummulites*. (*P.*, xiii. 1.) Oct. 31.
- On the Relation in Size between the Megalosphere and the Microspheric and Megalospheric Tests in the *Nummulites*. (*P.*, xiii. 2.) Mar. 13.
- MacMahon, Major P. A.*—Orthogonal and other special Systems of Invariants. (*T.*, xx.) Feb. 13.
- Mathews, G. B.*—Reduction of Generating Functions by means of Complex Integration. (*P.*, xiii. 2.) Feb. 13.
- Morrell, R. S., and A. E. Bellars.*—Some Compounds of Guanidine with Sugars. (*P.*, xiii. 2.) Feb. 27.
- Nuttall, G. H. F.*—Remarks on *Piroplasmosis*, with Exhibition of Specimens. Nov. 28.
- Palmer, B. J.*—Some Methods of increasing the Spark Length of the Wimshurst Machine. (*P.*, xiii. 2.) Jan. 30.
- Purvis, J. E.*—The Influence of Strong Electromagnetic Fields on the Spark Spectra of some Metals. (*P.*, xiii. 2.) Feb. 27.
- Richardson, O. W.*—The Diffusion of Hydrogen through Palladium. (*P.*, xiii. 1.) Nov. 14.
- Note on the Positive Leak from Hot Platinum in Air. (*P.*, xiii. 2.) Jan. 30.
- Ruhemann, S.*—Studies on Unsaturated Ketonic Compounds. (*P.*, xiii. 2.) Feb. 27.
- Sell, W. J.*—The Chlorination of a Picoline. (*P.*, xiii. 2.) Nov. 14.
- Sharpe, H. J.*—The Reflexion of Sound at a Paraboloid. (*P.*, xiii. 3.) May 1.
- Shipley, A. E.*—Notes on a Collection of Parasites from the Museum of University College, Dundee. (*P.*, xiii. 2.) Mar. 13.
- Thomson, J. J.*—The Charge of the α Rays from Polonium. (*P.*, xiii. 1.) Nov. 14.
- On the Non-electrification of γ Rays. (*P.*, xiii. 2.) Jan. 30.
- Are Metals made Radio-active by the Influence of Radium Radiation? (*P.*, xiii. 2.) Jan. 30.
- On the Rate of Recombination and the Size of Gaseous Ions. (*P.*, xiii. 3.) May 1.
- On the Striation of the Positive Column in Discharges through Vacuum Tubes. (*P.*, xiii. 3.) May 1.
- Warburton, C., and N. D. F. Pearce.*—Exhibition of New and Rare Arachnids taken near Cambridge. Nov. 28.
- Ward, H. M.*—A Problem concerning Wood and Lignified Cell-walls. (*P.*, xiii. 1.) Oct. 31.
- Exhibition of Lantern Slides of Fungi. May 15.
- Wilson, E. A.*—The Penguins of the Antarctic. Mar. 13.

CHESTER SOCIETY OF NATURAL SCIENCE, LITERATURE, AND ART,

GROSVENOR MUSEUM, CHESTER. (FOUNDED 1871.)

Officers.—*President*: Rev. A. H. Fish, B.A., B.Sc. *Hon. Secretaries*: G. P. Miln, Milnholme, Brook Lane, and W. F. J. Shephard, Bridge Street Row.

Meetings.—Ordinary Meetings held every Thursday from October to April, at 8 P.M. The Anniversary Meeting takes place in May.

Membership.—No Entrance Fee; Annual Subscription, 5s.

Publication.—*Annual Report*, 1s.

Papers read during Session 1904–1905.

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| <i>Arkle, J.</i> —Entomological Notes and Observations. Feb. 23. | <i>Oldham C.</i> —Zoological Notes. Feb. 23. |
| <i>Beveridge, Rev. P. J.</i> , M.A., B.Sc.—Reminiscences of a Great Thinker (Alex. Bain, LL.D.), and of Life in a Northern University. Oct. 20. | <i>Reynolds, J. H.</i> , F.R.A.S.—The Methods of Astronomers, Past, Present, and Future. Nov. 24. |
| <i>Brodrick, H.</i> , M.A.—British Caves. Feb. 2. | <i>Roberts, J. T.</i> , M.B.—The Medical Use of Plants. Oct. 6. |
| <i>Cole, R. S.</i> , M.A., A.M.I.C.E.—Splashes, or Impact with Liquid Surfaces. Nov. 3. | <i>Shelley, H. C.</i> —The Kodak in Peace and War. Dec. 8. |
| <i>Fish, Rev. A. H.</i> , B.A., B.Sc.—Mountain Climbing in Switzerland, and Snowdon, N. Wales. Mar. 23. | <i>Siddall, J. D.</i> —Cwm Bychan, its Lake and Romantic Surroundings; and Pwllheli and District. Dec. 1. |
| <i>Hatch, H. A.</i> , B.Sc.—Volcanoes and Earthquakes. Jan. 19. | <i>Sidebotham, Dr G. W.</i> —The Polarisation of Light. Jan. 26. |
| <i>Hodge, J. P.</i> , C.A.—Hereditary Genius. Feb. 9. | <i>Simpson, F.</i> —Rambles round the Leet. Oct. 13. |
| <i>Jones, Rev. R.</i> , B.A.—The Poetry of Matthew Arnold. Mar. 30. | <i>Skeat, Rev. Prof.</i> , Litt.D., F.B.A.—The King's English. Sept. 29. |
| <i>Kennedy, J. B.</i> —Marine Life-Saving Appliances. Nov. 17. | <i>Skeat, Miss E. G.</i> , D.S.—Jurassic Shore-Lines, or a Fragment of World History. Apr. 14. |
| <i>Killip, Rev. R.</i> , F.R.A.S.—Old Sol and his Family, or the Solar System. Mar. 2. | <i>Smith, J. K.</i> —Metals and their Structure. Apr. 6. |
| <i>Litchfield, F.</i> —The Milk of the Future. Dec. 15. | <i>Thompson, J.</i> —Zoological Notes and Observations. Feb. 23. |
| <i>Lysaght, Col. J. D.</i> —Character Sketches in the South of Ireland. Mar. 9. | <i>Welford, W. D.</i> , F.R.P.S.—Rising to the Occasion in Photography. Dec. 2. |
| <i>Mules, Dr P. H.</i> —Fabulous Monsters. Jan. 12. | <i>Whicello, Mrs.</i> —A Study of "In Memoriam" (Lord Tennyson). Feb. 16. |
| <i>Newstead, R.</i> , A.L.S., etc.—Zoological Notes and Observations on the Past Year. Feb. 23. | <i>Wood, Miss E. M.</i> —Delamere Forest, from its Historical, Natural, and Picturesque points of view. Mar. 16. |
| <i>Oldham, C.</i> —Colours of Animals. Nov. 10. | |

ROYAL CORNWALL POLYTECHNIC SOCIETY,

POLYTECHNIC HALL, CHURCH STREET, FALMOUTH.

Officers.—*President*: The Lord Bishop of Ripon. *Secretary*: Edward Kitto, F.R.Met.Soc., The Observatory, Falmouth.

Meetings.—Ordinary Meetings as required. Annual Meeting second week in February. Exhibition in August and Conversazione in October.

Membership.—Annual Subscription (minimum): Gentlemen, 10s.; Ladies, 5s.

Publication.—*Annual Report*, price 2s.

Papers read during 1904 and published in the Report.

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| <i>The President.</i> —Inaugural Address on Individuality in Art. Aug. 16. | <i>Newton, E. W.</i> , F.G.S.—Japanese Art. Aug. 17. |
| <i>Bignell, G. C.</i> , F.E.S.—The Aphides and their Food-plants. Aug. 17. | <i>Stephens, F. J.</i> , F.G.S.—Notes on the Geology, Minerals, and Mines of Lelant, St Ives, and Zennor. Aug. 18. |
| <i>Gregor, Dr A.</i> —Electrical Research. Aug. 18. | |

DERBYSHIRE ARCHÆOLOGICAL AND NATURAL HISTORY SOCIETY,

3 MARKET PLACE, DERBY.

Officers.—*President*: His Grace The Duke of Portland. *Secretary*: P. H. Currey.

Membership.—Entrance Fee, 5s.; Annual Subscription, 10s. 6d.; Life Composition, £7, 7s.

Publication.—*Journal*, free to Members. Non-members, 10s. 6d.

List of Papers read in 1904.

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| <i>Andrew, W. J.</i> —Snitterton Hall and its Occupiers. Sept. 28. | Features of Bolsover Castle. May 14. |
| <i>Brodhurst, Rev. F.</i> —Hardwick Hall. May 14. | <i>Jacques, W.</i> —Old Chesterfield. May 18. |
| <i>Currey, P. H.</i> —The Architectural | <i>Welby, E. M. E.</i> —Norton Church. May 13. |

THE DEVONSHIRE ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, LITERATURE, AND ART.

Officers.—*President*: B. Thomson, M.A. *Vice-President*: Sir Alfred Croft, G.C.I.E. *Hon. Secretaries*: J. Brooking-Rowe, F.S.A., Castle Barbican, Plympton; M. Adams.

Meetings.—Three days in July or August.

Membership.—No Entrance Fee at present; Annual Subscription, 10s. 6d.

Publication.—*Report and Transactions*, 1904.

DONCASTER SCIENTIFIC SOCIETY, GUILD HALL.

Officers.—*President*: G. H. Greenslade. *Hon. Secretary*: H. H. Corbett, M.R.C.S., 9 Priory Place.

Meetings.—Second and fourth Wednesdays, from October to April inclusive, at 8 P.M. The Anniversary Meeting takes place fourth Wednesday in April.

Membership.—No Entrance Fee ; Annual Subscription, 3s. 6d.

THE DORSET NATURAL HISTORY AND ANTI- QUARIAN FIELD CLUB.

(FOUNDED 1875.)

Officers.—*President*: N. M. Richardson, B.A., F.E.S. *Hon. Secretary*: Rev. H. Pentin, M.A., F.S.A.Scot., Milton Abbey Vicarage, Dorset.

Meetings.—Winter Meetings at the Dorset County Museum, in December and February. Summer Meetings in various localities. The Annual Meeting is in May.

Membership.—Entrance Fee, 10s.; Annual Subscription, 10s.

Publication.—*Index to Proceedings*, Vols. I.—XXV., price 6d.

Principal Papers published in "Proceedings," Vol. XXV. 1905, price 10s.

Barnes, Rev. W. M., B.A.—The Church Goods of Dorset, 1552.

Cecil, Lord E., F.R.G.S.—The Progress of Science in 1903.

Colley-March, H., M.D., F.S.A.—Two Examples of Symbolism.

Durham, Bishop of, D.D.—The late H. J. Moule, Curator of the Dorset County Museum.

Eaton, H. S.—The Rainfall in Dorset in 1903.

Filleul, Rev. S. E. V., M.A.—Dorchester Gaol and the Monmouth Rebellion.

Pentin, Rev. H., M.A.—The Old Town of Milton Abbey.

Prideaux, W. de C.—The Ancient Memorial Brasses of Dorset.

Radclyffe, Capt. C. E.—The Natural History of Alaska.

Raven, Rev. Canon, D.D., F.S.A.—The Church Bells of Dorset.

Richardson, N. M., B.A.—The First Appearance of Birds, Insects, etc., in Dorset during 1903.

—The Geology and the Natural History of the Osmington Coast.

Solly, Rev. H. S., M.A.—The Landslip at Lyme Regis.

Udal, Hon. J. S., F.S.A.—Charles II. in the Channel Islands.

Waugh, Rev. W. R., F.R.A.S.—Some Recent Sun-spots.

Wildman, W. B., M.A.—Sherborne Abbey and School.

HERTFORDSHIRE NATURAL HISTORY SOCIETY AND FIELD CLUB,

UPTON HOUSE, WATFORD, AND HERTFORDSHIRE COUNTY
MUSEUM, ST ALBANS.

(Founded 1875 as the "Watford Natural History Society and Hertfordshire Field Club." Reconstituted 1879.)

Officers.—*President*: John Morison, M.D., M.R.C.S., D.P.H., F.G.S. *Secretaries*: A. E. Gibbs, F.L.S., Kitchener's Meads, St Albans, and Alfred Sutton, A.R.S.M., Wolstanbury, Watford. *Editor*: John Hopkinson, F.L.S., F.G.S., Weetwood, Watford.

Meetings.—Wednesdays at 8 P.M. The Anniversary Meeting takes place in March.

Membership.—Entrance Fee, 10s.; Annual Subscription, 10s.; Life Composition, £5.

Publication.—*Transactions*, Vol. XII. Part 3 (1904), Parts 4 and 5 (1905), 1s. 6d. each. (Dulau & Co., London.)

*Papers read during Session 1904–1905. Those marked * are published; those marked † will be published in Vol. XII. Part 6 of "Transactions" (1905); and that marked "B" in Part 7.*

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| <p><i>Bickerton, W.</i>—Notes on Birds observed in Hertfordshire during the year 1904. Apr. 12.†</p> <p><i>Earland, A.</i>—Deep-sea Soundings. Dec. 14.</p> <p><i>Elliman, E. G.</i>—Coleoptera observed in Hertfordshire in 1904. Mar. 29.*</p> <p><i>Evans, Sir J., K.C.B., F.R.S.</i>—A Neolithic Celt found near Berkhamsted Common. Mar. 29.*</p> <p><i>Fordham, H. G.</i>—Hertfordshire Maps and Topographical Works. Part III. Feb. 22.*</p> <p><i>Gibbs, A. E., F.L.S.</i>—Notes on Lepidoptera observed in Hertfordshire in the year 1904. Mar. 29.*</p> <p><i>Hopkinson, J., F.L.S., F.G.S.</i>—Meteorological Observations taken in Hertfordshire in the year 1904. Mar. 29.†</p> <p>— Report on the Rainfall in Hertfordshire in the year 1904. Mar. 29.†</p> <p>— Note on the Comparative Rate of</p> | <p>Growth of the Pedunculated and the Sessile Oak at Bayfordbury, Herts. Apr. 12.†</p> <p><i>Hopkinson, J., F.L.S., F.G.S.</i>—Report on the Conference of Delegates to the British Association at Cambridge in 1904. Apr. 12. "B."</p> <p><i>Jackson, B. D., F.L.S.</i>—The History of Botanic Illustration (Anniversary Address). Mar. 8.*</p> <p><i>Kitchin, V. P., B.A.</i>—Note on Variation in <i>Melitæa aurinia</i> (<i>artemis</i>). Mar. 29.*</p> <p><i>Lones, T. E.</i>—On some Recently exposed Beds in the Valley of the Gade. Apr. 12.†</p> <p><i>Marriott, W., F.R.Met.Soc.</i>—The Upper Regions of the Atmosphere. Jan. 25.</p> <p><i>Mawley, E., F.R.Met.Soc.</i>—Report on Phenological Phenomena observed in Hertfordshire in 1904. Apr. 12.†</p> <p><i>Salter, A. E., D.Sc.</i>—The Gravels of Hertfordshire. Nov. 2.*</p> |
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HULL LITERARY AND PHILOSOPHICAL SOCIETY,

ROYAL INSTITUTION, ALBION STREET.

Officers.—*President:* H. W. Pigeon, M.A., M.C. *Hon. Secretary:* E. Harrison, M.D., 3 Wright Street.

Meetings.—On Tuesdays at 8 P.M., from November to April inclusive. The Anniversary Meeting takes place on last Friday in May.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Papers read during Session 1904–1905.

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| <p><i>Baldwin-Brown, Prof. G.</i>—Old Edinburgh. Feb. 14.</p> <p><i>Bridge, Sir F., Mus. Doc., M.V.O.</i>—When England was Musical, Three Centuries ago. Jan. 31.</p> <p><i>Diösy, A., F.R.G.S.</i>—Our New Alliance, and what it Means. Nov. 29.</p> | <p><i>Ellerthorpe, J.</i>—The Evolution of Shakespeare. Jan. 10.</p> <p><i>Gollancz, I.</i>—Christmas and the Drama. Dec. 20.</p> <p><i>Haddon, A. C., Sc.D., F.R.S.</i>—Evolution in Decorative Art. Nov. 8.</p> <p><i>Holdich, Col. Sir T.</i>—Thibet. Jan. 17.</p> |
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Maunders, E. W., F.R.A.S.—Spots on the Sun. Feb. 7.
O'Connor, T. P., M.P.—Parliament and its Personalities. Dec. 6.
Reeves, Hon. W. P.—Sixty Years of Colonising. Mar. 7.

Sealey, Prof. H. G., F.R.S.—Geological History and Origin of Domestic Animals. Jan. 3.
Sykes, Capt. M.—Ottoman Rule in Asia. Nov. 22.

HULL SCIENTIFIC AND FIELD NATURALISTS' CLUB, YOUNG PEOPLE'S INSTITUTE, CHARLOTTE STREET.

Officers.—*President*: E. Lamplough. *Hon. Secretary*: T. Sheppard, F.G.S., Museum, Hull.

Meetings.—Wednesdays at 8 P.M. The Anniversary Meeting is held in September.

Membership.—No Entrance Fee; Annual Subscription: Town Members, 5s.; Country Members, 3s.; Life Members: Town, £2, 2s.; Country, £1, 1s.

Publication, 1904.—*Transactions*, price 2s. 6d.

Papers read during Session 1904–1905.

Bayford, E. G.—Insects as Food and Medicine. Mar. 1.
Boyle, J. R., F.S.A.—A Trip in East Friesland. Apr. 12.
Foster, H. M.—Some Aquatic Larvæ. Oct. 12.
 — Flies with Aquatic Larvæ. Nov. 23.
Hill, G. H.—Fertilisation of Plants. July 6.
Hollingworth, Dr S.—Glaciers. Oct. 26.
Knight, H.—Germination of Seeds. July 20.
 — Origin of Seed-bearing Plants. Aug. 17.
Lamplough, E.—The Field Naturalist. Oct. 12.
M'Lean, K.—Ornithological Superstitions. Dec. 7.
Nicholson, J., F.R.H.S.—A Study of Dialect Fighting Words. Jan. 18.
Philip, R. H.—Microscopy in the Eighteenth Century. Feb. 1.

Philip, R. H.—Life in other Worlds. Mar. 29.
Redfearn, S., B.Sc.—A Comparative View of some Vertebrata. Mar. 15.
Robinson, J. F.—"Darwin." Feb. 15.
 — Plant Sensibility. May 24.
Sheppard, T., F.G.S.—Antiquity of Man. Aug. 3.
 — How East Yorkshire was made. June 7.
Wallace, H., L.D.S.—The Dynamics of Yachting. Nov. 9.
Walsh, G. B., B.Sc.—The Ground Work of Chemical Science. Jan. 4.
Warnes, A. R., M.S.C.I.—Disease and Immunity. June 21.
Waterfall, C.—The Tissues of Plants. May 10.
Wilson, Dr J. W., M.A., F.R.H.S.—Roman and Prehistoric Remains in the Neighbourhood of Essington. Sept. 14.
Wood, W.—Field Names. Apr. 26.

LEEDS PHILOSOPHICAL AND LITERARY SOCIETY, THE MUSEUM, LEEDS.

Officers.—*President*: J. E. Eddison, M.D. *Secretary and Curator*: H. Crowther, F.R.M.S.

Meetings.—On the first and third Tuesdays in each month, from October to April inclusive, at 8 P.M. The Anniversary Meeting takes place in May.

Membership.—Annual Subscription, £1, 1s. and 7s. 6d.

Publication.—*Annual Report*.

List of Papers read during Session 1904–1905.

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| <i>Bruce, Col. D., M.D., F.R.S.</i> —Trypanosoma as the Cause of Sleeping Sickness in Uganda. Dec. 6. | Chief Caves and Subterranean Rivers of Europe. Apr. 4. |
| <i>Crichton-Browne, Sir J., M.D., F.R.S.</i> —Light and Health. Mar. 21. | <i>Petrie, Prof. W. M.F., D.C.L., LL.D., F.R.S.</i> —Excavating in Egypt and its Results. Nov. 1. |
| <i>Gadow, H., Ph.D., M.A., F.R.S.</i> —Recent Travels in Mexico. Mar. 7. | <i>Sinclair, Col., R.E.</i> —Lessons from the Russo-Japanese War. Jan. 10. |
| <i>Holroyd, Sir C.</i> —Michael Angelo. Nov. 15. | <i>Warren, T. H., M.A.</i> —Literature and Empire. Feb. 7. |
| <i>Lee, S., Litt.D.</i> —Shakespeare as known to his Contemporaries. Jan. 24. | <i>Wilkinson, S., M.A.</i> —Some Aspects of National Defence. Oct. 18. |
| <i>Martel, E. A.</i> —Underground Explorations, with Illustrations of the | <i>Woods, Rev. H. G., D.D.</i> —The Court Portraits of Velasquez. Feb. 21. |

LEICESTER LITERARY AND PHILOSOPHICAL SOCIETY,

TOWN MUSEUM. (FOUNDED 1835.)

Officers.—*President*: S. P. Pick, M.D. *Hon. Secretary*: W. A. Evans, 24 Fosse Road, South.

Meetings.—Fortnightly, on Mondays, at 8 P.M., from October to March inclusive. The Annual General Meeting takes place in April.

Membership.—Annual Subscription: Full Members, £1, 1s.; Associates, 10s. 6d.

Publications.—Half-yearly *Transactions*, price 1s. each, containing Abstracts of Lectures, together with Reports, Transactions, and Papers read before the Society.

Lectures delivered during Session 1904–1905.

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| <i>Díósy, A., F.R.G.S.</i> —Russia and Japan: the Situation in the Far East. Dec. 12. | <i>Sheavyn, Miss, M.A.</i> —Manners and Customs of the Jacobean Age. Mar. 27. |
| <i>Fletcher, B. J.</i> —English Art in the Eighteenth Century. Jan. 30. | <i>Slater, Rev. H., M.A.</i> —The Naturalist in Iceland. Feb. 13. |
| <i>Hampson, Dr W., M.A.</i> —Radium. Jan. 16. | <i>Taylor, W.</i> —Ancient and Modern Tools. Mar. 13. |
| <i>Lummis, Rev. E. W., M.A.</i> —Beowulf. Nov. 28. | <i>Watts, Prof. W. W., M.Sc., M.A., F.R.S.</i> —The Buried Landscape of Charnwood Forest. Oct. 31. |
| <i>M'Clure, J. D., LL.D., M.A.</i> —The Sun. Oct. 17. | <i>Wessely, H., R.A.M.</i> —Violin Music. Feb. 27. |
| <i>Seton, E. T.</i> —The Personalities of Wild Animals. Nov. 14. | |

LIVERPOOL SCIENCE STUDENTS' ASSOCIATION,

ROYAL INSTITUTION, COLQUITT STREET.

Officers.—*President*: D. Griffith Davies. *Hon. Secretary*: H. W. Greenwood, 16 Longland Road, Liscard, Cheshire.

Meetings.—On the third Friday in each month, from October to April, at 7.15 P.M. Field Meetings on third Saturday in each month, from May to September. The Anniversary Meeting takes place in March.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 5s.

Publication.—*Annual Report*.

List of Papers read during Session 1904–1905.

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| <p><i>Brislee, T. J.</i>, M.Sc.—The Production of High Temperature. Apr. 15.</p> <p><i>Davies, D. G. D.</i>—Old Liverpool (Presidential Address). Oct. 21.</p> <p><i>Devanney, J.</i>—The Flower Garden. Feb. 17.</p> | <p><i>Edwards, E. W.</i>—Ruined Cities of Ceylon. Nov. 18.</p> <p><i>Greenwood, H. W.</i>—Earth Sculpture in Britain. Dec. 16.</p> <p><i>Haydon, W. T.</i>—The Mounting of Objects for the Microscope. Mar. 17.</p> |
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MANCHESTER FIELD CLUB.

(FOUNDED MARCH 10, 1899.)

Officers.—*President*: Prof. F. E. Weiss, D.Sc., F.L.S. *Hon. Secretary*: Alfred Griffiths, 16 Kennedy Street.

Meetings.—Generally monthly during Winter. Field Meetings, fortnightly during the Summer. Annual Meeting in January.

Membership.—No Entrance Fee; Annual Subscription, 10s.

Publication during 1905.—*Proceedings*, Vol. I. Part 2, price 1s.

Papers read during Session 1904–1905.

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| <p><i>Bailey, C.</i>, M.Sc., F.L.S.—The Cedar of Lebanon and its Allies. Jan. 24.</p> <p><i>Henry, Dr. A.</i>, M.A., F.L.S.—Forests, Wild and Cultivated. Mar. 10.</p> <p><i>Ragdale, J. R.</i>—Natural History</p> | <p>Rambles in Egypt and Syria. Dec. 8.</p> <p><i>Weiss, Prof. F. E.</i>, D.Sc., F.L.S.—Peatbogs and their Flora. Feb. 21.</p> |
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MANCHESTER FIELD NATURALISTS' AND ARCHÆOLOGISTS' SOCIETY,

27 BRAZENNOSE STREET. (FOUNDED 1860.)

Officers.—*President*: Sir W. H. Bailey, J.P. *Secretary*: Jos. Lunt, 27 Brazennose Street.

Meetings.—Fortnightly. The Annual Meeting takes place in January.

Membership.—No Entrance Fee; Annual Subscription: Ordinary Members 10s. 6d.; Corresponding Members, 5s.; Family Tickets, 21s.

Publication.—*Report and Proceedings*, January to December 1904, 1s.

List of Papers read during Session 1904–1905.

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| <p><i>Barnes, J.</i>, F.G.S.—The Story of the Rocks. Nov. 5.</p> <p><i>Hardy, J. Ray.</i>—The Mummifying of the Dead in Egypt. Mar. 12.</p> | <p><i>Lunt, J.</i>—What is a Field Naturalist? Mar. 22.</p> <p><i>Reade, C. E.</i>—A Chat about Birds within the range of the Society's Rambles. Nov. 19.</p> |
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MANCHESTER LITERARY AND PHILOSOPHICAL SOCIETY,

36 GEORGE STREET. (FOUNDED 1781.)

Officers.—*President*: Sir W. H. Bailey, M.I.M.E. *Secretaries*: Francis Jones, M.Sc., F.R.S.E., Manchester Grammar School; C. H. Lees, D.Sc., The University, Manchester. *Assistant Secretary and Librarian*: A. P. Hunt, B.A.

Meetings.—Fortnightly, on Tuesdays (5 P.M. and 6.30 P.M. alternately), from October to April inclusive. The Anniversary Meeting takes place in April.

Membership.—No Entrance Fee; Annual Subscription, £2, 2s.

Publications.—*Memoirs and Proceedings*, Vol. XLVIII. Part 3, 10s.; Vol. XLIX., Part 1, 1s. 6s., Part 2, 3s. 6d..

*List of Papers read during Session 1904–1905, and published in the “Memoirs and Proceedings” when marked *.*

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| <p><i>Chapman, D. L.</i>, M.A., and <i>C. H. Burgess</i>, M.Sc.—Note on Chlorine. Mar. 21.</p> <p><i>Darbishire, A. D.</i>, M.A., B.Sc.—On the Supposed Antagonism of Mendelian to Biometric Theories of Heredity. Jan. 10.</p> <p><i>Evans, W. H.</i>, B.Sc.—Note on the Electrolytic Preparation of Titanous Sulphate. Nov. 1.</p> <p><i>Knecht, Prof. E.</i>, Ph.D., F.I.C.—On some Constituents of Manchester Soot. May 2.</p> <p><i>Morris-Aircey, H.</i>, M.Sc.—On the Determination of Wave-lengths in the extreme Ultra-violet Portion of the Spectrum. Nov. 29.</p> <p>— On the Rigidity of Gelatine. Jan. 24.</p> <p>— and <i>E. D. Spencer</i>.—On the Temperature Co-efficient of Electrical Resistivity of Carbon at Low Temperatures. Mar. 21.</p> <p><i>Nicholson, F.</i>, F.Z.S.—Notes on the Wilkinsons, Ironmasters. Apr. 4.</p> <p><i>Oldham, C.</i>—On the Occurrence in Britain of the Pacific Eider <i>Somateria v-nigrum</i> (Gray). Feb. 7.</p> | <p><i>Oldham, C.</i>—On some Habits of Bats, with special Reference to the Lesser Horse-Shoe Bat (<i>Rhinolophus hipposiderus</i>). Feb. 7.</p> <p><i>Popplewell, W. C.</i>, M.Sc.—Experiments on the Relation between Uniform Compressive Stress and Permanent Strain in Wrought Iron and Steel. Jan. 24.</p> <p><i>Ramsden, W. B.</i>, B.Sc., M.B., Ch.B.—Two New Aldehyde Reactions. Feb. 21.</p> <p><i>Scott, D. H.</i>, M.A., Ph.D., F.R.S.—The Early History of Seed-bearing Plants, as recorded in the Carboniferous Flora. (<i>The Wilde Lecture</i>.) Feb. 28.</p> <p><i>Sidebottom, H.</i>—Report on the Recent Foraminifera from the Coast of the Island of Delos (Grecian Archipelago). Pt. 2. Dec. 13.</p> <p>— On <i>Nevillina</i>, a New Genus of Foraminifera. Mar. 21.</p> <p><i>Weiss, F. E.</i>, D.Sc., F.L.S., and <i>J. Lomax</i>.—The Stem Branches of <i>Lepidodendron selaginoides</i>. June 6.</p> |
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NEWCASTLE-UPON-TYNE LITERARY AND PHILOSOPHICAL SOCIETY,

WESTGATE ROAD. (FOUNDED 1792.)

Officers.—*President*: R. S. Watson, LL.D. *Hon. Secretaries*: Frederick Emley; A. Holmes. *Librarian*: H. Richardson.

Meetings.—Second Tuesday in each month. The Anniversary Meeting takes place on the first Tuesday in February.

Membership.—No Entrance Fee. Annual Subscription, One Guinea.

List of Lectures delivered during Session 1904–1905.

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| <p><i>Belloc, H., B.A.</i>—The Influence of Physical Geography on the Destiny of Nations. Jan. 23.</p> <p><i>Bidgood, J., B.Sc., F.L.S., F.R.H.S.</i>—Orchids. Dec. 12.</p> <p><i>Bouvier, C.</i>—Pierre Loti. Oct. 19.</p> <p><i>Chesterton, G. K.</i>—Old English and Scottish Ballads. Jan. 30.</p> <p><i>Collyer, C. T., F.R.G.S.</i>—Korea. Oct. 10.</p> <p><i>Coquelin, J.</i>—De l'influence de la France sur l'Angleterre. Nov. 2.</p> <p>— De l'influence de l'Angleterre sur la France. Nov. 16.</p> <p><i>Dolmetsch, A.</i>—Music in the Home Two Hundred Years Ago. Oct. 17.</p> <p><i>Ghosh, S. K.</i>—The Romance and History of India. Nov. 7.</p> <p><i>Hadow, W. H., M.A., Mus. Bac.</i>—Songs of Northumberland. Jan. 9.</p> <p><i>Hampson, Dr W. A., M.A.</i>—Radium. Dec. 5.</p> <p><i>Herdman, Prof. W. A., D.Sc., F.R.S.</i>—The Pearl Fisheries of Ceylon. Nov. 28.</p> | <p><i>Lanza, J.</i>—L'Arte di Carlo Goldoni. Oct. 5.</p> <p><i>Moore, Mme. B.</i>—Three Centuries of English Song. Feb. 6.</p> <p><i>Pares, B., M.A.</i>—Russia. Feb. 27.</p> <p><i>Petrie, Prof. W. M. F., D.C.L., LL.D., F.R.S.</i>—The Earliest Kings of Egypt. Oct. 31.</p> <p><i>Phillips, T. E. R., M.A.</i>—The System of the Stars. Twelve Lectures.</p> <p><i>Scott, D. H., M.A., Ph.D., F.R.S.</i>—The Origin of Seed-Bearing Plants. Oct. 24.</p> <p><i>Selon, E. T.</i>—Wild Animals I have Known. Nov. 21.</p> <p><i>Smith, R. B., M.A.</i>—Owls. Feb. 13.</p> <p><i>Thompson, A. H., M.A.</i>—The Beginnings of Gothic Architecture in England. Twelve Lectures.</p> <p><i>Walkley, A. B.</i>—Some Aspects of the Modern Stage. Dec. 19.</p> <p><i>Witt, Mrs.</i>—The English Painters of the Eighteenth Century: Hogarth, Reynolds, Gainsborough. Feb. 20.</p> |
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PENZANCE NATURAL HISTORY AND ANTI-QUARIAN SOCIETY,

THE MUSEUM, PUBLIC BUILDINGS. (FOUNDED 1839.)

Officers.—*President:* R. A. Courtney. *Hon. Secretaries:* J. B. Cornish, K. H. Bennett, M.R.C.S.

Meetings.—Second Friday in each of the six Winter months, at 8 p.m. The Anniversary Meeting takes place in November. Excursions during the Summer months.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.

Papers read during Session 1904–1905.

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| <p><i>Cornish, J. B.</i>—An Unpublished Poem by W. M. Praed. Feb. 10.</p> <p><i>Courtney, R. A.</i>—The Origin of Surnames from Millett's Madron Registers. Nov. 18.</p> <p>— Notes on Gulval Parish Registers. Feb. 10.</p> | <p><i>Hill, J. J.</i>—Notes on Superstitions about Animals. Mar. 22.</p> <p><i>Holman, F.</i>—Some Remarks on Parish Registers. Feb. 10.</p> <p>— Further Remarks on Parish Registers. Mar. 22.</p> |
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PETERBOROUGH NATURAL HISTORY, SCIENTIFIC, AND ARCHÆOLOGICAL SOCIETY,

MUSEUM, MINSTER CLOSE.

Officers.—*President:* J. H. Becby, J.P. *Secretary:* J. W. Bodger, 18 Cowgate.

Meetings.—Bi-monthly. The Anniversary Meeting takes place in March.

Membership.—Annual Subscription, 5s. to 21s.; Life Composition, Five Guineas.

Publication.—*Annual Report*. 1s.

List of Papers read during Session 1904–1905.

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| <i>Bodger, J. W.</i> —Annual Report. Mar. 20. | <i>Leicester, The Right Rev. the Lord Bishop of.</i> —Life in Lonely Deep-Sea Islands. Sept. 29. |
| <i>Dack, O.</i> —Local Folk and Weather Lore. Apr. 10. | <i>Shaw, Rev. W. A.</i> —Local Land and Fresh Water Shells. Feb. 2. |
| <i>Dean of Peterborough, The Very Rev.</i> —A Brief Tour in Canada. Oct. 11. | <i>Slater, Rev. H. H., M.A., F.L.S.</i> —The External Structure of Birds. Dec. 16. |
| <i>Fickling, W.</i> —Peterborough in the Twelfth Century. Nov. 1. | |

PRESTON SCIENTIFIC SOCIETY,

119A FISHERGATE.

Officers.—*President*: J. Kerr, M.P. *Hon. Secretary*: W. H. Heathcote, F.L.S., 47 Frenchwood Street.

Meetings.—Ordinary Meetings every alternate Wednesday at 8 p.m. Sectional Meetings nightly. The Anniversary Meeting is held in October.

Membership.—Number of Members, 700. Annual Subscription, 5s.; Life Members, £3, 3s.

Publication.—*Flora of Preston*, 1904. 6d.

List of Papers read during Session 1904–1905.

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| <i>Ball, H.</i> —Radio-Activity, and what we know of Radium. Oct. 26. | <i>Jackson, H.</i> —The Life History and Culture of the <i>Salmonidæ</i> . Dec. 21. |
| <i>Banister, Rev. E. D., M.A.</i> —The Battle of Inkerman. Feb. 15. | <i>Plumb, R., F.Z.S.</i> —The Feathered Tribes of Britain. Dec. 7. |
| <i>Bellingham, E.</i> —A-wheel in Brittany. Feb. 2. | <i>Taylor, F. H.</i> —Natural History of the Honey Bee. Jan. 11. |
| <i>Cortie, Rev. A. L., S. J., F.R.A.S.</i> —The Relation between Solar Activity and Terrestrial Magnetism. Nov. 23. | <i>Wells, S., F.R.G.S.</i> —The Deserts of Southern France. Nov. 9. |
| <i>Dickson, E., F.G.S.</i> —The Cotswold Hills and the Cotswold Villages. Jan. 18. | <i>Wood, J. W.</i> —The Passion Play at Oberammergau. Mar. 1. |

READING LITERARY AND SCIENTIFIC SOCIETY.

(FOUNDED 1880.)

Officers.—*President*: A. H. Cunningham, B.A. *Hon. Secretary*: A. W. White, Blgrave Street.

Meetings.—On the second and fourth Tuesdays in each month, at the Abbey Hall, from October to April inclusive, at 8 p.m.; once only in December and January. The Anniversary Meeting takes place in April.

Membership.—No Entrance Fee; Annual Subscription, 3s.

Publication.—*Annual Report*.

[No Return.*]

ROCHDALE LITERARY AND SCIENTIFIC SOCIETY, 105 FREEHOLD STREET, ROCHDALE.

Officers.—*President*: A. Jefferson, M.D. *Secretary*: J. R. Ashworth, D.Sc.,
105 Freehold Street.

Meetings.—On the first and third Fridays (or Wednesdays) in each month,
from October to April, at 7.45 P.M. The Annual Meeting takes place in
December.

Membership.—No Entrance Fee; Annual Subscription, 6s.

Publication.—*Annual Report and Transactions.*

Papers read during Session 1904–1905.

Ashworth, J. R.—A Granite Boulder
on Morecambe Sands. Dec. 14.

Baldwin, W.—Palæontology of Beds
at Spark Bottoms. Mar. 10.

Elliott, A. B.—A Stone Mattock.
Mar. 10.

Holden, J. E.—Facts and Figures of
Education in Rochdale. Mar. 24.

M'Kenzie, E. C.—The Art of Parody.
Dec. 14.

Melland, C.—The Blood. Nov. 18.

Pennington, W. H.—Some Ancient
Colouring Matters. Mar. 10.

Royds, C.—Life in the Antarctic.
Dec. 7.

Wardingley, C.—"The Lord of the
Isles." Feb. 22.

Wright, F. P.—John Ruskin, Social
Reformer. Mar. 10.

SCARBOROUGH PHILOSOPHICAL AND ARCHÆOLOGICAL SOCIETY,

THE MUSEUM. (FOUNDED 1829.)

Officers.—*President*: J. H. Rowntree. *Hon. Secretaries*: H. Ascough Chapman,
A.R.I.B.A., 13 Westboro'; H. King, 8 Avenue Road.

Meetings.—The Annual Meeting is on the first Saturday in February.

Membership.—No Entrance Fee; Annual Subscription, £1 and 10s., according to
privileges.

List of Lectures delivered during the Session 1904–1905.

Bingley, G.—With a Camera to Oxford
and Cambridge. Mar. 10.

Cash, M., F.G.S.—A Visit to Mexico.
Jan. 12.

Clarke, W. J.—A Chat about
Reptiles. Nov. 17.

Crowther, H.—Primitive Man. Dec. 1.

Enoch, F.—Romance of Insect Life.
Feb. 9.

Law, R.—Exploration in Caves. Feb.
23.

SHEFFIELD LITERARY AND PHILOSOPHICAL SOCIETY,

LEOPOLD STREET, SHEFFIELD.

Officers.—*President*: Thomas Skelton Cole. *Hon. Secretaries*: H. C. Sorby,
LL.D., F.R.S., Broomfield; S. Snell, F.R.C.S.E., Upper Hanover Street.
Secretary: The Librarian.

Meetings.—On the first Tuesday in each month, October to April inclusive. The
Annual Meeting is held in January.

Membership.—£2, 2s., £1, 1s., or 10s. 6d., according to Class.

Publication.—*Annual Report*, 1905.

Papers read during Session 1904–1905.

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| <p><i>Denny, Prof. A.</i>, F.L.S.—Some Problems in the Coloration of Animals. Feb. 2.</p> <p><i>Ellis, W. H.</i>, M.I.C.E.—Some Notes on the British Navy. Mar. 1.</p> <p><i>Gatty, Rev. R. A.</i>, LL.B.—Microscopic Flint Implements called Pigmy Flints. Nov. 1.</p> | <p><i>Hadfield, C.</i>, F.R.I.B.A.—Genesis of the Christian Basilica. Apr. 12.</p> <p><i>Lealy, Prof. A. H.</i>, M.A.—Ancient Irish Literature. Dec. 6.</p> <p><i>Porter, Dr C.</i>, B.Sc.—Sleeping Sickness and the Parasites causing it. Oct. 4.</p> |
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THE NORTH STAFFORDSHIRE FIELD CLUB,

STONE, STAFFORDSHIRE. (FOUNDED 1865.)

Officers.—*President*: A. Scrivener. *Hon. Secretary*: W. Wells Bladen, Stone, Staffordshire.

Meetings.—Monthly, except in December. The Anniversary Meeting is in March.

Membership.—Number of Members, 469. Entrance Fee, 5s.; Annual Subscription, 5s.

List of Papers read during Session 1904–1905, and published in "Annual Report and Transactions" for 1904–1905, price 3s. 6d.

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| <p><i>Barke, F.</i>, F.G.S.—Geological Report. Mar. 23.</p> <p><i>Beresford, Rev. W.</i>—The Cartulary of Dieu-la-Cres Abbey. Jan. 26.</p> <p><i>Bladen, W. Wells.</i>—Annual Report. Mar. 23.</p> <p>— In Memoriam (Rev. Thos. W. Daltry, M.A., F.L.S.). (2 plates.) Mar. 23.</p> <p>— The Earthquake of 3rd July 1904. Mar. 23.</p> <p><i>Bostock, E. D.</i>, F.E.S.—Entomological Report. Mar. 23.</p> <p><i>Jahn, L. H.</i>—Coleoptera occurring in North Staffs. Mar. 23.</p> <p><i>Lynam, C.</i>, F.R.I.B.A., F.S.A.—Archæological Report. Mar. 23.</p> <p><i>Masefield, J. R. B.</i>, M.A.—Zoological Report. Mar. 23.</p> <p><i>Nowers, J. E.</i>—Notes on British Poisonous Flowering Plants. Nov. 24.</p> <p><i>Philips, J. C.</i>—Abstract of Meteorological Observations for 1904. Mar. 23.</p> <p><i>Scrivener, Alex.</i>—Chartley Earthworks and Castle. (Plan.) Oct. 15.</p> <p>— Weston-on-Trent Church. Oct. 15.</p> | <p><i>Spanton, W.D.</i>, F.R.C.S.—Report of Delegate to British Association. Mar. 23.</p> <p><i>Ward, John.</i>—Contributions to Geology and Palæontology of North Staffs.—No. 5, Additional Notes on a Section of Strata at Weston Spink. Mar. 23.</p> <p>— Additions to Literature relating to Geology, Mineralogy, and Palæontology of North Staffs. Mar. 23.</p> <p><i>Wardle, Sir T.</i>, F.G.S., F.C.S.—Fossil Fern from Butterton. (Plate.) Jan. 26.</p> <p><i>Watts, Professor W. W.</i>, F.R.S., Sec. G.S.—Geological Photography. Jan. 26.</p> <p><i>Woodward, A. Smith</i>, D.Sc., F.R.S., etc.—Some Abdominal Ribs of <i>Hyperodapedon</i>, a Saurian, from Keuper Sandstone at Hollington. (Plate.) Jan. 26.</p> <p><i>Wrottesley, Rev. E. J.</i>, M.A.—Presidential Address—The Origin of the Manor; Village and Tribal Communities.</p> |
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WARWICKSHIRE NATURAL HISTORY AND ARCHÆOLOGICAL SOCIETY,

THE MUSEUM, WARWICK. (FOUNDED 1836.)

Officers.—*President*: W. B. Gibbins. *Hon. Secretaries*: Rev. J. M. Molls, M.A., F.G.S., The Museum, Warwick; Walter Shepherd, 10 High Street, Warwick.

Meetings.—The Annual Meeting is held in Easter week, and Ordinary Meetings are held quarterly.

Membership.—No Entrance Fee; Annual Subscription, 21s.; Residents in the Borough, 10s. 6d.

WARWICKSHIRE NATURALISTS' AND ARCHÆOLOGISTS' FIELD CLUB,

MUSEUM, WARWICK. (FOUNDED 1854.)

Officers.—*President*: W. Andrews, F.G.S. *Hon. Secretary*: Charles West, Cross Cheaping, Coventry.

Meetings.—The Annual Meeting is held in March. Five Excursions are made in the Summer months.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 5s.

List of Papers read at the Annual Meeting, April 21, 1905.

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| <p><i>Andrews, W.</i>, F.G.S. — President's Address — Recent Progress in Geological and Archæological In-</p> | <p>vestigation in Warwickshire and Neighbourhood. <i>Kemp, T.</i>—Monumental Brasses.</p> |
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WHITEHAVEN SCIENTIFIC ASSOCIATION,

SCIENTIFIC INSTITUTE, 14 HOWGILL STREET.

Officers.—*President*: R. E. Crompton, A.M.I.C.E. *Hon. Secretary*: P. L. Addison, F.G.S., A.M.I.C.E., Park House, Bigrigg S.O.

Meetings.—On Tuesdays at 8 P.M., from October to May. The Annual Meeting usually takes place in May.

Membership.—Annual Subscription: for Associate Members, 10s.; for Ordinary Members, 5s. 6d.

Publication.—*Journal*, 1s. (Free to Members.)

List of Papers read during Session 1904–1905.

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| <p><i>Blair, B.</i>—Copper Mining in the South of Ireland. Nov. 29.</p> <p><i>Burlington, J.</i>, B.A. — The Story of Geometry prior to Euclid, about 300 B.C. Jan. 10.</p> <p><i>Galloway, J.</i>, A.R.C.O. — Programme Music, or Music as a Means of</p> | <p>Expressing Definite Ideas. Jan. 24.</p> <p><i>Gardner, Rev. W. S.</i>, M.A. — The Seamen of the Elizabethan Period. Nov. 22.</p> <p><i>Heyward, J.</i> — Picture-Making by Photography. Mar. 7.</p> |
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- Huddleston, G.*—Whitehaven Harbour Works during the last Century. Dec. 13. and Modern Excavation. Feb. 21.
- Parker, Dr C. A.*—Calder Abbey, Irton, and Muncaster. Jan. 31. *Snape, Rev. R. H., M.A.*—St Bees Priory Church, Past, Present, and Future. Nov. 15.
- Sawyer, Rev. H. A. P., M.A.*—Ancient Stories re-told, or Ancient Tradition *Wandless, W. H.*—Water. Feb. 28.

YORKSHIRE NATURALISTS' UNION.

This is a confederation of the Natural History and Scientific Societies of Yorkshire, comprising Heckmondwike, Clayton-West, Barnsley, Wakefield, Elland, and Bradford Naturalists' Societies; Leeds Naturalists' Club; York and District Field Naturalists' Society; Leeds Conchological Club; Sheffield Naturalists' Club; Leeds Geological Association; Bradford Scientific Association; Malton Naturalists' Society; Halifax Scientific Society; Doncaster Scientific Society; Ripon Naturalists' Club and Scientific Association; Rotherham Naturalists' Society; Cleveland Naturalists' Club (Middlesbrough); Ackworth School Natural History Society; Thirsk Natural History Society; Craven Naturalists' Association (Skipton); Scarborough Philosophical and Archæological Society; Hull Co-operative Naturalists' Field Club; Hull Scientific and Naturalists' Club; Hull Geological Society; Huddersfield Naturalists' and Photographic Society; Scarborough Field Naturalists' Society; Darlington Naturalists' Society; Slaithwaite Naturalists' Society; Ravensthorpe Naturalists' Society; Leeds Co-operative Field Club; Milnsbridge Naturalists' Society; West Vale Naturalists' Society; and Lindley Naturalists' and Photographic Society.

Officers.—*President*: G. W. Lamplugh, F.R.S., F.G.S. *Hon. Secretary*: T. Sheppard, F.G.S., The Municipal Museum, Hull.

Meetings.—Excursions held at short intervals. Annual Meeting, December.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.; Life Composition, £7, 7s.

Publications during Session 1904-1905.—*The Naturalist*, monthly, 5s. per annum. *Transactions*, Part XXXI., 1s.

YORKSHIRE PHILOSOPHICAL SOCIETY,

MUSEUM, YORK. (FOUNDED 1822.)

Officers.—*President*: Sir Charles Strickland, Bart., F.G.S. *Keeper of the Museum*: Oxley Grabham, M.A. *Hon. Secretaries*: T. Auderson, M.D., 17 Stonegate; C. E. Elmhirst, 8 Lendal, York.

Meetings.—Second Monday in each month, from October to June inclusive at 5 P.M. The Annual Meeting takes place in February.

Membership.—No Entrance Fee; Annual Subscription, £2; Life Composition, £25.

Publication during 1904.—*Annual Report* for 1904.

Papers read during Session 1904–1905, and published in the Annual Report.

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| <p><i>Anderson, T.</i> — The Lipari Islands. Recent Changes in the Crater of Stromboli.</p> | <p><i>Benson, G.</i> — The Church and Parish of St Martin-cum-Gregory, York. <i>Benson, G.</i> — Notes on an Entrenchment on Holgate Hill, York.</p> |
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SCOTLAND.

ROYAL SOCIETY OF EDINBURGH,

THE MOUND, PRINCES STREET.

(FOUNDED 1783, AND INCORPORATED BY ROYAL CHARTER.)

Officers.—*President*: Right Hon. Lord Kelvin, G.C.V.O., LL.D., D.C.L., F.R.S.
Secretary: Prof. G. Chrystal. *Treasurer*: P. R. D. MacLagan. *Curator*: A. Buchan, M.A., LL.D. *Librarian*: J. Hardy.

Meetings.—*Statutory*, held on the fourth Monday of October. *Ordinary*, on the first and third Mondays of each month, from November until July.

Membership.—Number of Ordinary Fellows, over 500. Entrance Fee, £2, 2s.; Annual Subscription, £3, 3s. for first ten years, and £2, 2s. for fifteen years thereafter; Composition Fee payable by Fellows resident out of Scotland, £26, 5s.

Papers read from July 1904 to June 1905, on dates given. Those marked T. and P. have since been published in the "Transactions" and "Proceedings," as indicated.

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| <p><i>Blyth, B. H.</i>, M.I.C.E., and <i>W. A. Tait</i>, M.I.C.E. — Note on the Rainfall on the Drainage Area of the Talla Reservoir. <i>P.</i> xxv., pp. 616–629. 1s. May 1.</p> <p><i>Browne, E. T.</i>, B.A. — Report on the Medusæ found in the Firth of Clyde (1901–1902). <i>P.</i> xxv. June 5.</p> <p>— Notes on the Pelagic Fauna of the Firth of Clyde. <i>P.</i> xxv. June 5.</p> <p><i>Bruce, A.</i>, M.A., M.D. — The Distribution of the Nerve Cells in the Intermedio-Lateral Tract of the Dorsal-Lumbar Region of the Human Spinal Cord. June 5.</p> <p><i>Bryce, Dr T. H.</i> — On the Histology of the Blood of the Larva of <i>Lepidosiren paradoxa</i>. Part II. Histogenesis. <i>T.</i> xli., No. 19. 3s. 6d. July 18.</p> <p><i>Calderwood, W. L.</i> — A Specimen of the Salmon in the Smolt to Grilse Stage. <i>P.</i> xxv., pp. 395–400. 6d. Dec. 19.</p> | <p><i>Cameron, A. T.</i>, M.A. — Variations in the Crystallisation of Potassium Hydrogen Succinate due to the presence of other Metallic Compounds in the Solution. (Preliminary Notice.) <i>P.</i> xxv., pp. 449–451. 6d. Jan. 23.</p> <p>— The Constitution of Complex Salts. I. Derivatives of the Sesquioxides. <i>P.</i> xxv., pp. 722–737. 6d. Feb. 20.</p> <p><i>Cameron, J.</i>, M.D. — The Ontogeny of the Neuron in Vertebrates: a Cytological Study of the Embryonic Nucleus. Feb. 6.</p> <p><i>Chrystal, Prof.</i> — Some Particular Results in the Theory of Seiches. <i>P.</i> xxv., pp. 328–337. 6d. July 18.</p> <p>— Some further Results in the Mathematical Theory of Seiches. <i>P.</i> xxv., pp. 637–647. 6d. Mar. 20.</p> <p>— On the Hydrodynamical Theory of Seiches. <i>P.</i> xli. June 19.</p> |
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- Coker, E. G.*, M.A., D.Sc.—A Laboratory Apparatus for Measuring the Lateral Strains in Tension and Compression Members, with some Applications to the Measurement of the Elastic Constants of Metals. *P. xxv.*, pp. 452-457. 6d. Nov. 21.
- Cole, F. J.*—A Monograph on the General Morphology of the Myxinoïd Fishes, based on a Study of *Myxine*. Part I. The Anatomy of the Skeleton. *T. xli.* June 19.
- Collet, L. W.*, B.Sc.—Les Concrétions phosphatées de l'Aguilhas Bank (Cape of Good Hope); avec une description de la Glauconie qu'elles renferment, par Gabriel W. Lee, B.Sc. *P. xxv.* June 19.
- Colquhoun, Dr W.*—A Form of Bolometer adapted for Physiological Investigations. *P. xxv.* May 15.
- Dewar, Sir J.*, LL.D., D.Sc., F.R.S.—Sequel to a Paper on Charcoal Vacua, by Professors Tait and Dewar, read before the Society in 1875. Jan. 9.
- Donald, P. D.*, A.M.I.C.E.—Remarks on the Rainfall Records in the Talla Drainage Area during the years 1896 to 1902. *P. xxv.*, pp. 630-636. 6d. May 1.
- Eliot, Sir C.*, K.C.M.G.—The Nudibranchiata of the Scottish National Antarctic Expedition. *T. xli.* No. 22. 1s. May 15.
- Falconer, J. D.*, M.A., B.Sc.—The Igneous Geology of the Bathgate and Linlithgow Hills. *T. xli.* No. 14. 1s. Dec. 5.
- Fraser, J.*—Suggestions towards a Theory of Electricity based on the Bubble Atom. *P. xxv.*, pp. 680-716. 1s. 6d. May 15.
- Halm, Dr J.*—On the Structure of the Series of Line and Band Spectra. *T. xli.* July 4.
- On Professor Seeliger's Theory of Temporary Stars. *P. xxv.*, pp. 513-552. 1s. 6d. Nov. 7.
- Some Suggestions on the Nebular Hypothesis. *P. xxv.*, pp. 553-561. 6d. Mar. 20.
- On a Group of Linear Differential Equations of the Second Order, including Professor Chrystal's Seiche-Equation as a Special Case. *T. xli.* June 19.
- Jackson, Rev. F. H.*—The Complete Solution of the Differential Equation of $J_{[n]}$. *P. xxv.*, pp. 273-276. 6d. July 4.
- Theorems relating to a Generalisation of Bessel's Function. *T. xli.*, No. 17. 1s. Feb. 20.
- Kelvin, Lord.*—Deep Water Ship Waves; on Canal Ship Waves. *P. xxv.*, pp. 562-587. 1s. Jan. 23.
- Kidston, R.*, F.R.S., F.G.S.—On the Internal Structure of *Sigillaria elegans* of Brongniart's Histoire des Végétaux Fossiles. *T. xli.* May 1.
- Mackenzie, Dr W. L.*—The Medical Examination and Supervision of Schools and School Children. Mar. 13.
- Marshall, Dr H.*, F.R.S.—Crystallographical Notes. *P. xxv.*, pp. 383-388. 6d. Dec. 5.
- Metzler, Prof. W. H.*—Variant Forms of Vanishing Aggregates of Minors of Axisymmetric Determinants. *P. xxv.*, pp. 717-721. 6d. May 1.
- Vanishing Aggregates of Determinant Minors. *P. xxv.* June 5.
- Milne, J. R.*, B.Sc.—A New Form of Spectrophotometer to Measure the Light Absorption of Dilute Solutions, and for other purposes. *P. xxv.*, pp. 338-354. 6d. July 4.
- Notes on Experiments in Spectrophotography. July 18.
- A Linkage for Graphically Indicating the Direction of Refracted and Reflected Light Rays. *P. xxv.* June 19.
- Muir, Dr T.*, LL.D.—The Sum of the Signed Primary Minors of a Determinant. *P. xxv.*, pp. 372-382. 6d. Nov. 7.
- Continuants resolvable into Linear Factors. *T. xli.* No. 13. 1s. Nov. 7.
- The Three-line Determinants of a Six-by-Three Array. *P. xxv.*, pp. 452-457. 6d. Nov. 7.
- The Theory of Continuants in the Historical Order of Development up to 1880. *P. xxv.*, pp. 649-679. 1s. 6d. Jan. 9.
- Continuants whose Main Diagonal is Univarial. *P. xxv.*, pp. 507-512. 6d. Jan. 23.
- The Eliminant of a Set of General Ternary Quadrics. *T. xli.* No. 16. 1s. Jan. 23.
- Murray, J.*—On a New Family and Twelve New Species of Rotifera of the order Bdelloïda, collected by the Lake Survey. *T. xli.*, No. 15. 3s. 6d. Jan. 23.
- On some Rhizopods and Heliozoa from Loch Ness. *P. xxv.*, pp. 609-615. 6d. Mar. 6.
- The Tardigrada of the Scottish Lochs. *T. xli.* June 5.

- Oliver, T.*, B.Sc.—The Diameters of Twisted Threads, with an Account of the History of the Mathematical Setting of Cloths. *P.* xxv., pp. 481-497. 6d. Mar. 20.
- Oliver, Dr T.*—Ankylostomiasis, or the Miner's Worm Disease. *P.* xxv. Mar. 27.
- Paton, Dr D. N.*—On Simultaneous Removal of Spleen and Thymus. *P.* xxv., pp. 389-391. 6d. Dec. 5.
- and *Dr J. C. Dunlop.*—A Study of Three Vegetarian Diets. *P.* xxv., pp. 498-506. 6d. Mar. 6.
- Peddie, Dr W.*—Magnetic Quality of a Boscovichian Assemblage of Molecular Magnets. May 15.
- Perrard, Dr E.*—Sur les Sarcodines du Loch Ness. *P.* xxv., pp. 593-608. 6d. Mar. 6.
- Pirie, J. H.*, B.Sc., M.B.—On the Graptolite-bearing Rocks of the South Orkney Islands. *P.* xxv., pp. 463-470. 6d. Feb. 20.
- Romaines, G.*—A Possible Explanation of the Formation of the Moon. *P.* xxv., pp. 471-479. 6d. Nov. 21.
- Russell, J.*—Note on the Molecular Condition of Nickel Demagnetised by Decreasing Reversals. *P.* xxv., 309-310. (*Abstract.*) 6d. July 18.
- Note on some of the Magnetic Properties of Demagnetised and Annealed Iron. June 19.
- Scott, T.*, LL.D., F.L.S.—Report on the Free-swimming Crustacea found in the Firth of Clyde (1901-1902). *P.* xxv. June 5.
- Smith, Prof. A.*—On Two Liquid States of Sulphur S_{λ} and S_{μ} and their Transition Points. *P.* xxv., pp. 588-589. 6d. Mar. 20.
- Smith, Prof. A.*—The Nature of Amorphous Sulphur, and Contributions to the Study of the Influence of Foreign Bodies on the Phenomena of Supercooling observed when Melted Sulphur is suddenly chilled. *P.* xxv., pp. 590-592. 6d. Mar. 20.
- Sommerville, D. M. Y.*, M.A., B.Sc.—Networks of the Plane in Absolute Geometry. *T.* xli. *P.* xxv., pp. 392-394. (*Abstract.*) 6d. Dec. 19.
- Taylor, W. W.*, M.A., D.Sc.—On a new Method of Preparing Esters. *P.* xxv. June 5.
- Traquair, R. H.*, M.D., LL.D., F.R.S.—The Lower Devonian Fishes of Gemünden. Supplement. *T.* xli., No. 20. 1s. 6d. Dec. 19.
- Palæontology of the Upper Old Red Sandstone of the Moray Firth Area. Feb. 20.
- Turner, Sir W.*, K.C.B., LL.D.—On *Penella*: a Crustacean Parasitic on the Finner Whale (*Balaenoptera musculus*). *T.* xli., No. 18. 4s. Feb. 6.
- Wesenberg-Lund, Dr C.*—A Comparative Study of the Lakes of Scotland and Denmark. *P.* xxv., pp. 401-448. 2s. Jan. 23.
- West, G.*—A Comparative Study of the Dominant Phanerogamic and Higher Cryptogamic Flora of Aquatic Habit. *T.* xli. June 19.
- West, W.*, F.L.S., and *G. S. West*, M.A., F.L.S.—A further Contribution to the Fresh water Plankton of the Scottish Lochs. *T.* xli., No. 21. 5s. Mar. 6.

ROYAL PHYSICAL SOCIETY OF EDINBURGH,

1 INDIA BUILDINGS.

(INSTITUTED 1771; INCORPORATED BY ROYAL CHARTER 1788.)

Officers.—*President*: Wm. Evans, F.R.S.E. *Secretary*: O. Charnock Bradley, M.B., D.Sc. F.R.S.E., Royal Veterinary College, Edinburgh.

Meetings.—Fourth Monday of each month, from October to March inclusive (third Monday in December), at 7.45 P.M. The Annual Meeting is in November.

Membership.—Entrance Fee, 10s.; Annual Subscription, 12s. 6d.

Publication.—*Proceedings*, Vol. XVI. No. 1, 1s. 3d.; No. 2, 2s.

*List of Papers read during Session 1904–1905. Those marked * have been published.*

- Bles, N. J.*—The Hatching Process in Anura. Feb. 27.
Bradley, O. C.—On the Trapezium of the Horse's Carpus. Oct. 24.*
Carpenter, G. H., and W. Evans.—Some further Additions to the List of Spiders collected in the Edinburgh District. Dec. 19.*
Clarke, W. E.—Exhibition of, and Remarks on, Specimens of the Orkney Vole. Oct. 24.
Crampton, C. B.—A Possible Mode of Inheritance of Adaptive Characters. Mar. 27.*
Evans, W.—Exhibition, with Remarks, of Living Specimens of *Limax tenellus*. Oct. 24.*
 —The Black-backed Gulls of the Bass. Dec. 19.*
Hodgson, T. V.—On a Ten-legged Pycnogonid from the South Orkneys. Jan. 23.*
Kerr, J. G.—The Embryology of Dipnoan and Crossopterygian Fishes. Feb. 27.
Leighton, G. R.—Morphological Variations in *Vipera berus*. Oct. 24.*
Murray, J.—On the Regional Distribution of Plankton Organisms in Scottish Freshwater Lochs. Jan. 23.*
Rennie, J.—On the Tentacles of an Antarctic Siphonophore. Dec. 19.*
Scott, J.—A Catalogue of Land, Fresh-water and Marine Crustacea found in the Basin of the River Forth and its Estuary. Feb. 27.*
Thomson, J. A.—Note on the Gonostyles of Two Antarctic Siphonophora. Nov. 28.*
 —Three Species of Antipathorians. Mar. 27.*
Thomson, J. S.—The Periodic Growth of Scales in Gadidae as an Index of Age. Mar. 27.*
Waterston, D.—Hermaphroditism in a Ram. Nov. 28.
 —Two Unusual Variations in the Brain and Spinal Cord. Nov. 28.

THE ROYAL SCOTTISH SOCIETY OF ARTS,

117 GEORGE STREET, EDINBURGH.

(FOUNDED 1821; INCORPORATED 1841.)

Officers.—*President:* Dawson Turner, M.D. *Secretary:* W. A. Carter, F.R.S.E., M.Inst.C.E., 117 George Street.

Meetings.—Second and fourth Mondays in each month, from November to April inclusive, at 8 P.M. The Annual Meeting takes place in November.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publication.—*Transactions*, price 2s. 6d., issued annually at beginning of the Session.

Papers read during Session 1904–1905.

- Bacon, H. W.*—On Stained Glass: its Origin, Development, and Methods of Production. Feb. 13.
Blaikie, W. B.—On Sundials, more particularly as suited for the Interiors of Street Houses. Mar. 13.
Clark, A.—On the Tram and Road Car of the Future. Nov. 28.
Forgan, W.—On Machines for Grinding Telescope Specula and a Simple Addition to an Ordinary Lathe for that Purpose. Feb. 13.
Kemp, C. W.—On Wireless Light Telephony. Apr. 10.
Macdonald, The Right Hon. Sir J. H. A.—On Roads; what they are and what they should be. Jan. 30.
Macfie, D.—On a Gas Meter and Governor in Combination. Feb. 27.
O'Connor, H.—On a Flash Lighter for Incandescent Gas-lighted Lanterns. Feb. 27.
 —On a Simple Apparatus for the Determination of CO₂ and other Gases. Feb. 27.
Omit, T.—On an Improvement in Kitchen Ranges. Jan. 16.

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| <i>Pillington, B. A.</i> —On the Effect of Electric Bell Wires in Extending Fire Risks and an Apparatus for Reducing the same. Apr. 10. | <i>Ritchie, J.</i> —On Electrical Lifting Machinery. Jan. 16. <i>Thomson, G.</i> —On Ben Nevis and its Observatories. Dec. 19. |
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ABERDEEN PHILOSOPHICAL SOCIETY.

(FOUNDED 1840.)

Officers.—*President*: Prof. W. L. Davidson, LL.D. *Secretary*: W. K. Burnett, M.A., Migvie House.

Meetings.—At least once in each month, from October to May. The Annual Meeting takes place in December.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.

Papers read during Session 1904–1905.

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| <i>Curtis, Prof. W. A.</i> , B.D.—A Glimpse of Modern Greece: its People and its Antiquities. Feb. 16. <i>Forbes, A.</i> —Sheridan. Oct. 27. <i>Grenfell, B. P.</i> , M.A., D.Litt.—The New Sayings of Jesus, and how we found them. Nov. 17. <i>Kernahan, C.</i> —Literary Life behind the Scenes; or the Confessions of an Author. Nov. 29. | <i>M'Leod, C.</i> , D.Sc.—Radio-Activity. Mar. 30. <i>Northcroft, G. J. H.</i> —The City of the Future. Mar. 2. <i>Stuart, Col. J. A. M.</i> , C.B., C.M.G.—Manchuria. Dec. 8. <i>Taylor, Rev. R. B.</i> , M.A.—Heine. Jan. 12. <i>Webber, H. S.</i> , B.A.—The Humour of <i>Punch</i> . Feb. 2. |
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BANFFSHIRE FIELD CLUB AND SCIENTIFIC SOCIETY,

TOWN AND COUNTY CLUB, BANFF. (FOUNDED 1880.)

Officers.—*President*: G. Thomson, M.A. *Secretary*: John Yeats, M.A., 27 Castle Street, Banff.

Meetings.—8 P.M. on Thursdays. Monthly during Winter. The Annual Meeting takes place in October.

Membership.—No Entrance Fee; Annual Subscription, 5s.; Life Composition, £2.

Papers read during 1904, and published.

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| <i>Barelay, J. R.</i> —Some Old Banff Wells. June 22. <i>Richards, W. J. B.</i> , D.D.—Weights and Measures. Mar. 10. — Habits of Wild Animals Re- | tained after Domestication. Mar. 10. <i>Thomson, G. D.</i> , M.A.—The Sundew and Sensation in Plants. (Presidential Address.) Dec. 8. |
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JOINT MEETING OF NORTHERN LITERARY AND SCIENTIFIC SOCIETIES
AT ELGIN, JUNE 24 AND 25, 1904.

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| <i>Buie, J.</i> —Radio-Activity. <i>Fraser, J.</i> —The Standing-Stones of Lewis. <i>Mackie, W.</i> —The Sand Barrier Lakes of Morayshire. | <i>Milne, J.</i> , LL.D.—Water in the Atmosphere. <i>Taylor, W.</i> —Some Reptilian Remains from the Triassic Rocks of Elginshire. |
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BUCHAN FIELD CLUB,

FREE LIBRARY AND MUSEUM, PETERHEAD. (FOUNDED 1887.)

Officers.—*President*: P. Giles, M.A., LL.D., *Secretary*: J. F. Tocher, F.I.C.,
5 Chapel Street, Peterhead.

Meetings.—Ordinary Meetings are held at dates fixed by the Council during Winter. Excursions in Summer. The Anniversary Meeting takes place in December.

Membership.—Entrance Fee, 5s.; Annual Subscription, 5s.

Publication.—*Transactions*, published annually in December, Vol. VIII., 5s.

*Papers read during Session 1904–1905, and published in the
"Transactions."*

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| <i>Don, J.</i> , M.A., B.Sc.—A Prehistoric Interment near Peterhead. Oct. 28. | <i>Milne, J.</i> —Geology of Strichen. Aug. 11. |
| <i>Fairley, J. A.</i> —The Seventh Lord Sinclair, Covenanter and Royalist. Mar. 10. | <i>Roid, A.</i> , M.D.—Legendary Plant Lore. Dec. 2. |
| <i>Forrest, Rev. J.</i> , M.A.—Place-Names in Lonmay. Oct. 8. | <i>Sinclair, W. J. H.</i> , M.B.—The Weather and Climate of Peterhead. Apr. 22. |
| <i>Giles, P.</i> , M.A., LL.D.—Making over of Mother Tongue. Mar. 31. | <i>Trist, Prof. J. W. H.</i> —Flora of Buchan: its Distribution, Origin, and Relation to Man. Apr. 1. |
| <i>Greig, G.</i> , M.A.—Mormond Hill. Aug. 11. | |

ROYAL PHILOSOPHICAL SOCIETY OF GLASGOW,

207 BATH STREET. (FOUNDED 1802.)

Officers.—*President*: D. Murray, LL.D. *Hon. Secretary*: Prof. P. Bennett.

Meetings.—Fortnightly on Wednesdays at 8 P.M., from November to April inclusive. The Anniversary Meeting takes place in November.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.; Life Composition, £13, 13s.

Publication.—*Proceedings*, annually, 10s. 6d.

*List of Papers read during the Session 1904–1905, and published
in "Proceedings."*

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| <i>Allen, H. S.</i> , M.A., B.Sc.—Note on Radio-Activity. Jan. 25. | (Camb.)—Development of Sanitation during the Nineteenth Century. Apr. 5. |
| —Experimental Work at Low Temperatures. Mar. 22. | <i>Chalmers, P. MacG.</i> —A Thirteenth Century Tombstone in Glasgow Cathedral. Mar. 1. |
| <i>Becker, Prof. L.</i> , Ph.D.—Progress of Astronomy in the Nineteenth Century. Feb. 8. | <i>Colville, J.</i> , M.A., D.Sc.—A Theory of Education. Dec. 14. |
| <i>Brown, J. T. T.</i> —Geoffrey of Monmouth in English Literature. Feb. 15. | <i>Edwards, J.</i> —Joannes Duns Scotus. Mar. 15. |
| <i>Brownlee, J.</i> , M.A., M.D.—Biographical Sketch of the late Dr J. B. Russell. Feb. 22. | <i>Fawsitt, C. E.</i> , D.Sc.—The Education of the Examiner. Apr. 19. |
| <i>Buchanan, Dr R. M.</i> —Stone Decay. Nov. 16. | <i>Kerr, Prof. J. G.</i> , M.A.—The Evolution of Zoological Science during the Nineteenth Century. Mar. 8. |
| <i>Chalmers, A. K.</i> , M.D., D.P.H. | |

- MacLean, Prof. M.*, D.Sc.—Developments of Electric Signalling during the Nineteenth Century. Jan. 11.
Milne, W., M.A., B.Sc.—The Function of the Water Vascular System in Rotifera. Nov. 30.
Muir, J., D.Sc., M.A., and *A. Lang*, M.A., B.Sc.—The Effect of Tension on the Overstrain on the Magnetic Properties of Iron. Jan. 25.
Schäfer, Prof. E. A., LL.D., F.R.S.—Methods of Artificial Respiration. Nov. 2.
Smith, S.—Decay of Stone in Buildings, its Cause and Prevention. Nov. 28.

SCOTTISH SOCIETY OF LITERATURE AND ART,

83 BATH STREET, GLASGOW. (FOUNDED 1886.)

Officers.—*President*: Right Hon. Lord Kelvin. *Secretary and Treasurer*: George Middleton, M.A., LL.B.

Meetings.—As may be arranged. The Annual Meeting takes place in April.

Membership.—Annual Subscription, 7s. 6d.; Life Composition, Five Guineas.

Papers read during Session 1904–1905.

- Bolton, G.*, F.Z.S.—Lions and Tigers, and the Larger Cats. Feb. 27.
Holdich, Col. Sir T., K.C.M.G., K.C.I.E., C.B., etc.—Tibet. Dec. 5.
Jack, W.—The Story of Scoone and the Coronation Stone. Feb. 9.
Moore, Madame B.—Arthur Sullivan and his Music. Jan. 19.
Staden, D.—Some Queer Things about Japan. Nov. 1.
Story, D.—The Campaign with Kuro-patkin. Nov. 22.

GREENOCK PHILOSOPHICAL SOCIETY,

WATT INSTITUTE, KELLY STREET.

Officers.—*President*: Sheriff Arthur T. Glegg. *Hon. Secretary*: Victor C. Meyer, 56 Finnart Street.

Meetings.—On Fridays, October to February, at 8.15 P.M. The Annual Meeting is held in January.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.

Papers read during Session 1904–1905.

- Balfour, I. B.*, M.A., M.D., LL.D.—Plants and their Environment. Feb. 10.
Colquhoun, W., M.A., F.R.S.E.—Masters of Medicine. Dec. 18.
Gleeson, Rev. J., F.R.G.S.—Russia of To-day. Feb. 3.
Hampson, W., M.A.—Radium. Nov. 25.
Holdich, Col. Sir T., K.C.M.G., K.C.I.E., C.B.—Tibet. Dec. 9.
Meyer, V. C.—Henry Irving: the Actor and his Art. Nov. 11.
Millar, J. H., M.A., LL.B.—Charles Dickens: his Life and Work. Nov. 4.
Spielmann, M. H., F.S.A.—British Sculpture of To-day. Jan. 27.
Stevens, F.—The Story of the Hive. Nov. 11.
Watt, A., M.A.—Cloudland. Oct. 28.
Wilson, A., F.R.S.E., F.I.S.—Nature's Armoury: some Defences and Devices of Animal Life. Feb. 24.

PAISLEY PHILOSOPHICAL INSTITUTION,

3 COUNTY PLACE. (FOUNDED 1808.)

Officers.—*President*: William Peattie. *Hon. Secretary*: J. Gardner,
3 County Place.

Meetings.—Fortnightly, on Tuesdays, from October to March inclusive. The Anniversary Meeting takes place in October.

Membership.—Entrance Fee, 5s.; Annual Subscription, 7s. 6d.

Publication.—*Annual Report*, 1904.

STIRLING NATURAL HISTORY AND ARCHÆOLOGICAL SOCIETY,

SMITH INSTITUTE.

Officers.—*President*: George Lowson, LL.D. *Secretaries*: R. Kidston, F.R.S.E.,
12 Clarendon Place; D. B. Morris, 15 Gladstone Place.

Meetings.—Third Tuesday in October to April inclusive, at 8 p.m., in the Public Hall, Stirling. The Anniversary Meeting takes place in October.

Membership.—Annual Subscription, 5s.

Publication.—*Transactions* for 1903–1904; price 2s. to Members.

List of Papers read during Session 1904–1905.

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| <i>Coates, H.</i> —Through the Rocky Mountains to the Grand Canon of the Colorado. Mar. 7. | <i>Serle, Rev. W.</i> —Migration of Birds. Mar. 21. |
| <i>Cook, W. B.</i> —Battle of Stirling Bridge. Jan. 24. | <i>Shearer, J. E.</i> —Maps of Scotland. Feb. 21. |
| <i>Hoare, T. W.</i> —Struggle for Life in the Plant World. Dec. 20. | —Stirlingshire Maps. Feb. 21. |
| <i>Murray, J. G.</i> —Early Scottish Domestic Plenishing. Apr. 18. | <i>Stirling, C.</i> —Rainfall in Stirlingshire for 1904. Apr. 18. |
| <i>Ronald, J.</i> —Earl of Mar's Ludging. Nov. 15. | <i>Wilson, Rev. A. S.</i> —Romance of Botany. Oct. 18. |

IRELAND.

ROYAL DUBLIN SOCIETY,

LEINSTER HOUSE, DUBLIN.

Officers.—*President*: Right Hon. Lord Ardilaun, D.L. *Hon. Secretaries*: Prof. J. Joly, F.R.S.; Capt. J. R. L. Riall, D.L. *Registrar*: Richard J. Moss, F.I.C., F.C.S. *Librarian and Editor of Scientific Publications*: A. H. Foord, Ph.D., F.G.S.

Meetings.—Monthly, from November to June inclusive.

Membership.—Entrance Fee, £3, 3s.; Annual Subscription, £2, 2s.

*List of Papers read during 1904 (in part), and 1905 (in part). Those marked * published in the "Scientific Transactions"; those marked † in the "Economic Proceedings," and the rest in the "Scientific Proceedings."*

- Adney, W. E.*, D.Sc., A.R.C.Sc.I.—Photographs of Spark-Spectra from the Large Rowland Spectrometer in the Royal University of Ireland. Part III.—The Ultra-Violet Spark-Spectra of Platinum and Chromium. Mar. 19.
- Unrecognised Factors in the Transmission of Gases through Water. Dec. 20.*
- Barrett, Prof. W. F.*, F.R.S., *W. Brown*, B.Sc., and *R. A. Hadfield*.—Researches on the Physical Properties of an Extensive Series of Alloys of Iron. Parts IV. and V. Mar. 15.*
- Belas, P. E.*—On the Structure of Water-Jets, and the Effect of Sound thereon; with Note on Combination-Tones, by Prof. W. F. Barrett, F.R.S. Mar. 21.
- Carpenter, G. H.*, B.Sc., F.E.S.—Injurious Insects and other Animals observed in Ireland during the year 1903. Apr. 19.†
- Conway, Prof. A. W.*, M.A., F.R.U.I.—The Partial Differential Equations of Mathematical Physics. Part I. Dec. 20.*
- Crook, T.*, A.R.C.Sc.I.—A Method for the Mechanical Analysis of Soils. June 21.†
- Hackett, F. E.*, B.Sc.—The Photometry of X-Rays. May 17.*
- Hartley, Prof. W. N.*, D.Sc., F.R.S.—Notes on the Constitution of Nitric Acid and its Hydrates. Apr. 18.
- On the Construction of Fume-Chambers with Effective Ventilation. Mar. 21, 1905.
- Hutchinson, J. J.*—Vapour-Pressure Apparatus. Mar. 15.
- Joly, Prof. J.*, D.Sc., F.R.S.—Formation of Sand-Ripples. Aug. 15.
- The Petrological Examination of Road-Metal. Mar. 21.
- M'Clelland, Prof. J. A.*, M.A.—The Penetrating Radium Rays. Apr. 19.*
- On Secondary Radiation. Dec. 20.*
- On Secondary Radiation (Part II.), and Atomic Structure. Feb. 21.*
- M'Weney, Prof. E. J.*, M.A., M.D.—Remarks on the Cases of Carbon-Monoxide Asphyxiation that have occurred in Dublin since the Addition of Carburetted Water-Gas to the Ordinary Coal-Gas. Apr. 19.
- Moss, R. J.*, F.I.C., F.C.S.—On the State in which Helium Exists in Pitchblende. June 21.*
- Pollok, J. H.*, B.Sc.—On the Extraction of Glucinum from Beryl. May 17.*
- Tickborne, C. R. C.*, F.I.C.—On a Method in Qualitative Analysis for Determining the Presence of certain Metallic Oxides. June 21.
- Wilson, W. E.*, D.Sc., F.R.S.—On the Temperature of certain Stars. Jan. 17.*
- Wooldridge, Prof. G. H.*, M.R.C.V.S.—The Temperature of Healthy Dairy Cattle. Mar. 21.
- Wright, W. B.*, B.A., and *H. B. Muff*, B.A., F.G.S.—The Pre-Glacial Raised Beach of the South Coast of Ireland. Feb. 16.

ROYAL IRISH ACADEMY,

19 DAWSON STREET, DUBLIN. (FOUNDED BY ROYAL CHARTER 1786.)

Officers.—*President*: Prof. Robert Atkinson, LL.D., Litt.D. *Treasurer*: Rev. W. R. W. Roberts, M.A., B.D. *Secretary*: Prof. Charles J. Joly, Sc.D., F.R.S. *Secretary of Council*: Prof. Louis C. Purser, M.A., Litt.D. *Librarian*: R. L. Praeger, B.A., B.E. *Secretary for Foreign Correspondence*: R. F. Scharff, B.Sc., Ph.D. *Resident Secretary*: R. Macalister, M.A., LL.D.

Meetings.—*Stated General Meetings*, 16th March and 30th November at 4 o'clock P.M. *Ordinary Meetings* on the second Monday of November and December, and the second and fourth Mondays of January, February, April, May, and June at 4 o'clock P.M.

Membership.—Entrance Fee, Five Guineas ; Annual Subscription, Two Guineas ; Life Composition, Twenty Guineas. Not more than twelve Members can be elected in one year.

There were published the following: *Cunningham Memoir, No. XI.*, "The Flinders Petrie Papyri (3rd Memoir), with Transcriptions, Commentaries, and Index," by Rev. John P. Mahaffy, D.D., and Prof. J. Gilbert Smyly, M.A. (with Autotypes I. to VII.), price Two Guineas net. "Calendar of Documents in the 'Dignitas Decani' of St Patrick's Cathedral," by Very Rev. J. H. Bernard, D.D. *Proceedings*, Vol. XXV., Section C., Part 9, price 6d. "A Survey of the Spiral Nebula Messier 33, by means of Photographs taken by Dr Isaac Roberts, F.R.S.," by J. L. E. Dreyer, Ph.D. *Proceedings*, Vol. XXV., Section A., Part 2, price 1s. "The Antrim Raised Beach: a Contribution to the Neolithic History of the North of Ireland," by George Coffey, B.E., and R. Lloyd Praeger, B.E. *Proceedings*, Vol. XXV., Section C., Part 6, price 2s. 6d.

Papers read, November 1904 to June 1905.

- Adeney, W. E.*, D.Sc. — Chemical Changes attending the Aërobic Bacterial Fermentation of Simple Organic Substances. — Part 1. Urea, Asparagine, and Albumose. Dec. 12. *P. xxv. B. 2.* 1s.
- Cole, Prof. G. A. J.*, F.G.S. — On the Growth of Crystals in the Contact Zone of Granite and Amphibolite. Apr. 10. *P. xxv. B. 5.* 6d.
- Falkiner, C. L.*, M.A. — The Irish Parliament under the Tudor Sovereigns ; with some Notices of the Speakers of the Irish House of Commons. May 8. *P. xxv. C. 10.* 6d.
- Hind, Dr W.*, F.R.C.S. — Notes on the Homotaxial Equivalents of the Beds which Immediately Succeed the Carboniferous Limestone in the West of Ireland. Feb. 27. *P. xxv. B. 4.* 1s.
- Meyer, Prof. K.*, Ph.D. — Todd Memorial Lectures. Subject: The Irish Triada. Jan. 23, Feb. 13, Feb. 27.
- Instructions of Cormac. Mar. 16.
- Pethybridge, G. H.* See *Praeger*.
- Praeger, R. Ll.*, B.A., and *George H. Pethybridge*, Ph.D., B.Sc. — The Vegetation of the Southern Part of the County of Dublin. May 22.
- Ross, Major R.*, C.B., F.R.S. — Verb-Functions, with Notes on the Solution of Equations by Operative Division. Feb. 13. *P. xxv. A. 3.* 6d.
- Recent Discoveries Relating to Malaria and Mosquitoes. June 26.
- Stephens, Miss Jane*, B.Sc. — A List of the Irish Cœlenterata, including the Ctenophora ; being a Report from the R.I.A. Fauna and Flora Committee. Feb. 27. *P. xxv. B. 3.* 1s.
- Teixeira, Prof. M. F. Gomes.* — Hyper-Elliptic Integrals.
- Ussher, R. J.*, D.L. — On the Discovery of Hyæna, Mammoth, and other Extinct Mammalia in a Carboniferous Cavern in the County of Cork. Nov. 14. *P. xxv. B. 1.* 1s.
- Westropp, T. J.*, M.A. — A Survey of the Ancient Churches in the County of Limerick. Nov. 30. *P. xxv. C. 8.* 4s.
- White, Rev. N. J. D.*, B.D. — Libri Sancti Patricii : the Latin Writings of St Patrick. Nov. 14. *P. xxv. C. 7.* 2s. ; in cloth 3s.

DUBLIN UNIVERSITY PHILOSOPHICAL SOCIETY,
6 TRINITY COLLEGE, DUBLIN.

Officers.—*President*: Rev. T. J. D. Atkinson, M.A. *Secretary*: A. L. Leeper, Graduates' Memorial Building, Trinity College.

Meetings.—Every Thursday at 8 P.M., November to June. The Anniversary Meeting is held last Thursday in October.

Membership.—No Entrance Fee; Annual Subscription, 15s.

Publication.—*Proceedings*, 1904–1905.

Papers read during Session 1904–1905.

Shannon, G. W.—Spirit of Patriotism. | *Smiley, M. T.*—Robert Louis Stevenson.

BELFAST NATURAL HISTORY AND PHILO-
SOPHICAL SOCIETY,

MUSEUM, COLLEGE SQUARE, NORTH. (FOUNDED 1821.)

Officers.—*President*: Prof. J. Symington, M.D., F.R.S. *Hon. Secretary*: R. M. Young, J.P., M.R.I.A., 2 Wellington Place.

Meetings.—First Tuesday of each Winter month, at 8 P.M. The Anniversary Meeting is usually in June.

Membership.—No Entrance Fee; Annual Subscription, One Guinea.

Publication.—*Report and Proceedings*, 1903–1904, 2s.

Papers read during Session 1904–1905.

Ferrar, H. T., B.A., F.G.S.—Some Results of the National Antarctic Expedition. Jan. 3.

Forth, F. C., Assoc.R.C.Sc.I.—Technical Instruction in Belfast: a Retrospect and a Prospect. Nov. 22.

Horner, J.—Russia: its People and Politics. Apr. 4.

M'Kean, E. J., B.A.—Some Irish Ghosts. Apr. 4.

Milligan, F., F.R.S.A.—Cruise around Ireland with the Royal Society of Antiquaries. Mar. 14.

Taylor, J.—Stained Glass: Ancient and Modern. Dec. 19.

Wilson, Prof. G., D.Sc.—The Work of the Ulster Fisheries Association. Feb. 7.

SECTION II.

MATHEMATICAL AND PHYSICAL.

LONDON.

ROYAL ASTRONOMICAL SOCIETY, BURLINGTON HOUSE, W.

(FOUNDED 1820 ; INCORPORATED BY ROYAL CHARTER 1831.)

Officers.—*President*: W. H. Maw, Esq. *Secretaries*: Thomas Lewis, Esq., 8 Ulundi Road, Blackheath, S.E.; E. T. Whittaker, M.A., F.R.S., 92 Chesterton Road, Cambridge. *Assistant Secretary*: W. H. Wesley, Royal Astronomical Society, Burlington House.

Meetings.—On the second Friday in each month from November to June inclusive, at 5 P.M.

Membership.—Number of Members, June 1905, 712. Entrance Fee, 42s.; Subscription, 42s.

Publications during 1903-5.—*Monthly Notices*, Vol. LXIV. (1903-4), 15s., and Vol. LXV., Nos. 1 to 8, 1s. each. *Memoirs*, Vol. LVII., Part 1 (1905), 5s.

Papers read from June 1904 to June 1905, and published for the most part in the "Monthly Notices."

Astronomer - Royal.—Distortion in Photographic Images with the 13-inch Astrographic Object Glass of the Royal Observatory, Greenwich.

—Mean Areas and Heliographic Latitudes of Sun-spots in the year 1903, Deduced from Photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn (India) and in Mauritius.

—New Variable Star found on the Astrographic Plates at the Royal Observatory.

—Note on Diurnal Variations of the Nadir and Level of the Transit Circle of the Royal Observatory, Greenwich.

—Note on the Determination of the Longitude Paris-Greenwich in the year 1902.

Astronomer - Royal—Observations of Occultations of Stars by the Moon made at the Royal Observatory, Greenwich, in the year 1904.

—Observations of the *Leonid* Meteors of 1904 November.

—Observations of the Satellite of *Neptune* from Photographs taken between December 4, 1903, and April 8, 1904.

—The Large Sun-spot of 1905 January 29 - February 11, and Contemporaneous Magnetic Disturbances, Observed at the Royal Observatory, Greenwich.

Bellamy, F. A.—A Comparison of the A. G. Catalogue (1900'0) for Vienna (Ottakring) with the Radcliffe Third Catalogue (1890'0).

Brooks, W. R.—Dr Brooks's Discovery of his Twenty-fourth Comet.

- Brown, E. W.*—On the Completion of the Solution of the Main Problem in the New Lunar Theory.
- The Final Values of the Coefficients in the New Lunar Theory.
- Theory of the Motion of the Moon. Part IV.
- Bryant, W. W.*—Note on the Publication of Astronomical Papers, with Special Reference to the International Catalogue.
- Chapman, H. W.*—On the Validity of Meteor Radiants Deduced from Three Tracks.
- Conrady, A. E.*—On the Spherical Correction of Object-glasses.
- The Optical Sine-condition.
- Cortie, Rev. A. L.*—Magnetic Storms and Associated Sun-spots.
- Cowell, P. H.*—A Discussion of the Long-period Terms in the Moon's Longitude.
- Analysis of 145 Terms in the Moon's Longitude, 1750–1901.
- New Empirical Term in the Moon's Longitude.
- On the Discordant Values of the Principal Elliptic Coefficient in the Moon's Longitude.
- Reply to Prof. Turner's Paper on Instrumental Errors affecting Observations of the Moon.
- The Coefficient of the Principal Term in the Moon's Latitude.
- The Longitude of the Moon's Perigee.
- The Moon's Observed Latitude, 1847–1901.
- Crommelin, A. C. D.*—Ephemeris for Physical Observations of *Jupiter*, 1905–6.
- Ephemeris for Physical Observations of the Moon, 1905.
- Ephemeris for Physical Observations of *Saturn*, 1905–6.
- Provisional Elements of Jupiter's Satellite VI.
- Denning, W. F.*—Note on the Shower of *Leonids* in 1904.
- The Meteors from Biela's Comet.
- Value of Meteoric Radiants based on Three Paths.
- Downing, A. M. W.*—Reduction of the Right Ascensions of the Hong Kong Catalogue of 2120 Southern Stars for the Epoch 1900 to the System of Auwers's Southern Fundamental Stars.
- The Equational and Polar Diameters of *Jupiter* as Measured with the Greenwich Transit Circle, 1880–1901.
- Dyson, F. W., and D. J. R. Edney.*—Discussion of the Observations of the Satellite of *Neptune* made at the Royal Observatory, Greenwich, in the years 1902–3–4.
- Dyson, F. W., D. J. R. Edney, and W. G. Thackeray.*—A Determination of the Apex of the Solar Motion and of the Constant of Precession from a Comparison of Groombridge's Catalogue (1810) with Modern Greenwich Observations.
- Ellis, W.*—Note on the Annual Inequality in the Frequency of Magnetic Disturbance.
- The Seasonal Variation in Magnetic Disturbance; with Other Remarks.
- Espin, Rev. T. E.*—New Double Stars.
- Fowler, A.*—Observations of the Spectra of Sun-Spots, Region C to D.
- Spectroscopic Observations of the Recent Great Sun-spot and Associated Prominences.
- Franks, W. S.*—Dark Nebulosities.
- Detached Nebula in Cygnus.
- The Spiral Nebula η I. 153 Ceti.
- Gore, J. E.*—On the Relative Brightness of Binary Stars.
- On the Relative Brightness of Stars.
- Hinks, A. R.*—On the Determination of Proper Motions without Reference to Meridian Places.
- and *H. N. Russell.*—Determinations of Stellar Parallax from Photographs taken at the Cambridge Observatory. Introductory Paper.
- Hough, G. W.*—On the Determination of Longitude on the Planet Jupiter.
- Johnson, Rev. S. J.*—The Later *Leonids* of November 1904.
- Lockyer, W. J. S.*—The Spectroheliograph of the Solar Physics Observatory.
- Markwick, Col. E. E.*—Note on the Variation of ϵ *Aurigæ*.
- Maunder, E. W.*—Magnetic Disturbances and their Association with Sun-spots: a Reply.
- Magnetic Disturbances as Recorded at the Royal Observatory, Greenwich, and their Association with Sun-spots. Third Paper.
- Magnetic Disturbances, 1882–1893, as Recorded at the Royal Observatory, Greenwich, and their Association with Sun-spots.
- and *A. S. D. Maunder.*—The Solar Rotation Period from Greenwich Sun-spot Measures, 1879–1901.

- Merfield, C. J.*—Observations of *Uranus* and *Saturn*.
- Molesworth, Maj. P. B.*—A Suspected Instance of Sudden Change on *Jupiter*.
- Report on Observations of *Jupiter*, 1903-4.
- Nevill, E.*—On Hansen's Co-efficients for the Inequalities in the Moon's Longitude.
- On the Terms of Long Period in the Complete Expression for the Moon's Longitude.
- Newall, H. F.*—Description of a Four-prism Spectrograph attached to the 25-inch Refractor (Newall Telescope) of the Cambridge Observatory.
- On the General Design of Spectrographs to be Attached to Equatorials of Large Aperture, considered chiefly from the Point of View of Tremor-discs.
- Velocity in the Line of Sight: Selected STARS. Cambridge Observatory II., 1903.
- Newcomb, S.*—On the Eclipse of *Agathocles*.
- Plummer, H. C.*—Note on Point Distributions on a Sphere, with Remarks on the Determination of the Apex of the Sun's Motion.
- Notes on the Cœlostæt and Siderostat.
- On the Probable Effects of Radiation on the Motion of Comets; with Special Reference to Encke's Comet.
- The Positions of 70 Stars in the Cluster *M 13 Hercules*.
- Plummer, W. E.*—The Great Cluster in *Hercules*.
- Rambaut, A. A.*—On a very Sensitive Method of Determining the Irregularities of a Pivot; on the Pivot Errors of the Radcliffe Transit Circle, and their Effect on the Right Ascensions of the Radcliffe Catalogue for 1890.
- Roberts, A. W.*—Further Note on the Density and Prolateness of Close Binary Stars.
- Russell, H. N.*—Parallax of *Lalande 21185* and γ *Virginis*.
- Saunders, S. A.*—The Determination of Selenographic Positions and the Measurement of Lunar Photographs: Third Paper:—Results of the Measurement of Four Pairs Negatives. Fourth Paper:—First Attempt to Determine the Figure of the Moon.
- Saunders, S. A.*—The most Probable Position of a Point Determined from the Intersection of Three Straight Lines.
- Schuster, A.*—Sun-spots and Magnetic Storms.
- Shackleton, W.*—Telescopic Observation of a Meteor Trail.
- Struve, H.*—On the Eclipses of the Satellites of *Saturn* in the years 1904-5.
- Tebbutt, J.*—Observations of *Uranus* at Windsor, New South Wales.
- Thome, J. M.*—Report of the Work of the Argentine National Observatory 1904.
- Turner, H. H.*—Further Note on the Origin of Magnitude Equation in Photographic Measures.
- Note on a Possible Source of Error in Measures of Star Places due to Defective Centering of the Object Glass.
- On the Formula for Connecting Diameters of Photographic Images with Stellar Magnitude.
- Further Note on Instrumental Errors Affecting Observations of the Moon, in reply to Mr Cowell's Paper of June 1904.
- Wickham, W.*—On the Decline of the Visual Magnitude of the Variable 159, 1904 *Pegasi*, as observed at the Radcliffe Observatory, Oxford.
- Williams, A. S.*—On the Relative Efficiency of Different Methods of Determining Longitudes on *Jupiter*.
- On the Variable Star *γ Aurigæ* (Ch. 1929).
- Revised Elements of *UY Cygni* (Ch. 7514).
- Revised Elements of *γ Lyrae* (Ch. 6685).
- Wilson, W. E.*—On the Temperature of Sun-spots and on the Spectrum of an Artificial One.
- Wolf, M.*—A Remarkable Nebula in *Cygnus* connected with Starless Regions.
- The Great Nebula of ψ *Eridani*.

BRITISH ASTRONOMICAL ASSOCIATION.

85 GRACECHURCH STREET, E.C.

Officers.—*President*: A. C. D. Crommelin, F.R.A.S. *Secretaries*: J. G. Petrie, F.R.A.S., 859 Holloway Road, N.; J. A. Hardcastle, F.R.A.S., Dial House, Crowthorne, Berks. *Assistant-Secretary*: T. F. Maunder, 85 Gracechurch Street, E.C.

Meetings.—On the last Wednesday in each month at 5 P.M., from October to June inclusive, at Sion College, Victoria Embankment, E.C. The Annual General Meeting takes place on the last Wednesday in October.

Membership.—Entrance Fee, 5s.; Annual Subscription, 10s. 6d.; Life Subscription, £6, 6s.

Publications.—*Journal*, Vol. XV. Nos. 1-10, 1s. 6d. each. *Memoirs: The Sun*, Vol. XIII. Part 2, 1s. 6d. *Meteors*, Vol. XIV. Part 1, 1s. 6d.

List of Papers read before the Society during the Session 1904-1905, and published in the "Journal."

- Adams, A. J. S.*—Notes upon the Jerk or "X" Effect in the Magnet Declination. Nov. 30.
- Astbury, T. H.*—The Variable Star 48 Aurigæ. Apr. 26.
- Besley, W. E.*—A Cape Colony Meteorite. May 31.
- Burns, G. J.*—The Total Light of the Stars. Nov. 30.
- An Instrument for Measuring the Brightness of the Sky. Feb. 22.
- Burton-Brown, Col. A.*—Notes on Stations for Viewing the Total Eclipse of the Sun, August 1905. May 31.
- Chambers, G. F.*—The Total Eclipse of the Sun, Aug. 30, 1905. Nov. 30.
- The Coming Total Eclipse of the Sun. Jan. 25.
- Clerke, Miss A. M.*—Tasks for Totalities. Apr. 26.
- Cobham, A. B.*—Astronomical Drawings. Nov. 30.
- Crommelin, A. C. D.*—*Phæbe*, Saturn's Ninth Satellite. Oct. 26.
- The Coming Spanish Eclipse. Probable Weather Conditions. Dec. 28.
- A Simple Jovian Orrery. Dec. 28.
- Denning, W. F.*—Meteors directed from near β Trianguli. Oct. 26.
- Downing, A. M. W.*—Relative Drift of Stars in the *Hyades*. Oct. 26.
- The Date of Easter in 1905. Dec. 28.
- Gale, W. F.*—The Solar Eclipse of March 1905. May 31.
- Grover, C.*—Report of the Rousdon Observatory. Mar. 29.
- Hardcastle, J. A.*—The Priming and Lagging of the Tides. May 31.
- Heath, W.*—The Moon's Radius. May 31.
- Johnson, Rev. S. J.*—The Star π Arietis. Feb. 22.
- Lepper, G. H.*—An Examination of the Modern Views as to the Real Nature of the Markings on Mars. Dec. 28.
- Lynn, W. T.*—The Ninth Satellite of Saturn. Oct. 26.
- Enke's Comet. Nov. 30.
- The Eclipse of Agathocles. Jan. 25.
- Dörfel and the Great Comet of 1680. Apr. 26.
- Markwick, Col. E. E.*—The Great Sun-spot of Jan.-Feb. 1905. Mar. 29.
- Maunder, E. W.*—Eclipse Suggestions. May 31.
- Newbegin, G. J.*—Solar Prominences, 1904. Feb. 22.
- Orr, Miss M. A.*—Variable Stars of Long Period. Dec. 28.
- Ryle, R. J.*—A Method of Finding Mercury and Venus in Daylight. Nov. 30.
- Stevens, Miss C. O.*—Note on Halos and Rainbows. Dec. 28.
- Stromeyer, C. E.*—The Value of Solar Eclipses for Geodetic Measurements. May 31.
- Stuart, S.*—Ancient Observations in the Almagest. Mar. 29.
- Whitmill, C. T.*—Halos and Rainbows. Jan. 25.
- The Earth's Rotundity Proved by Reflection. Apr. 26.

Whitmell, C. T. — Eclipses of the
Midnight Sun. Nov. 30.
— Eclipses of the Midday Moon.
Jan. 25.

Williams, A. S. — The Light Changes
of the Variable Star *V Vulpeculae*.
Feb. 22.

THE LONDON MATHEMATICAL SOCIETY,

22 ALBEMARLE STREET, W.

(FOUNDED 1865; INCORPORATED 1894.)

Officers.—*President*: Prof. A. R. Forsyth, F.R.S. *Treasurer*: J. Larmor, F.R.S. *Hon. Secretaries*: Prof. A. E. H. Love, F.R.S., 34 St Margaret's Road, Oxford; and J. H. Grace, Peterhouse, Cambridge.

Meetings.—On the second Thursday in each month, from November to June, at 5.30 P.M. The Anniversary Meeting is in November.

Membership.—Entrance Fee, One Guinea; Annual Subscription, One Guinea; Life Composition, Ten Guineas.

Publication.—*Proceedings*, Vol. II. (Second Series), £1, 5s.

*List of Papers read during Session 1904–1905. Those marked * have been published.*

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| <p><i>Baker, H. F.</i> — Remarks on Alternants and Continuous Groups. Nov. 10. — On Alternants and Continuous Groups. Jan. 12.* <i>Barnes, E. W.</i> — The Linear Difference Equation of the First Order. Nov. 10.* — The Maclaurin Sum - Formula. Feb. 9.* — The Asymptotic Expansion of Integral Functions of Finite Non-zero Order. Feb. 9.* <i>Bateman, H.</i> — A Generalisation of the Legendre Polynomial. Jan. 12.* — The Weddle Quartic Surface. Mar. 9.* <i>Bromwich, T. J. I. A.</i> — On the Theory of the Logarithmic Potential. Mar. 9.* <i>Burnside, W.</i> — On Groups of Order $p^a q^b$. Dec. 8.* — On the Complete Reduction of any Finite Permutation Group, and on the Arithmetical Nature of the Coefficients in its Irreducible Components. Mar. 9.* — On Criteria for the Finiteness of the Order of a Group of Linear Substitutions. June 8. — On the Condition of Reducibility of any Group of Linear Substitutions. June 8. <i>Bussey, W. H.</i> — Generational Rela-</p> | <p>tions for the Abstract Group Simply Isomorphic with the Group L.F. [2, p^a]. Jan. 12.* <i>Cunningham, A.</i> — On High Pellian Factorisations. May 11. <i>Cunningham, E.</i> — An Extension of Borel's Experimental Method of Summation of Divergent Series applied to Linear Differential Equations. Dec. 8.* <i>Dawson, H. G.</i> — On a System of Conics Yielding Operators which Annihilate U cubic, and its Bearing on the Reduction of the Cubic to a Sum of Four Cubes. May 11. <i>Dixon, A. C.</i> — On the Linear Differential Equation of the Second Order. Dec. 8. — On a Class of Expansions in Oscillating Functions. Jan. 12.* <i>Forsyth, A. R.</i> — On the Theory of Geodesics. Mar. 9. — On Differential Equations whose Integrals are Expressible by Partial Quadratures. June 8. <i>Genese, R. W.</i> — Two Simple Results in the Attraction of Uniform Wires obtained by Quaternions, with, for Comparison, their Verification by the Geometry of the Complex. Nov. 10. <i>Glaisher, J. W. L.</i> — Expansions of the Elliptic and Zeta Functions of $\frac{1}{2} K$ in powers of q. Nov. 10.*</p> |
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- Hardy, G. H.*—On the Zeros of Certain Classes of Integral Taylor's Series. Nov. 10.
- On the Function $\sum_{n=1}^{\infty} x^n/n^s$. Feb. 9.*
- On the First Principles of Cauchy's Theory of Functions. June 8.
- On a Class of many-valued Functions Defined by a Definite Integral. June 8.
- Hill, M. J. M., L. N. G. Filon, and H. W. Chapman.*—On the Projection of Two Triangles into the same Triangle. Mar. 9.*
- Hobson, E. W.*—On the Failure of Convergence of Fourier's Series. Dec. 8.*
- The General Theory of Transfinite Numbers and Order Types. Feb. 9.*
- Jackson, F. H.*—The Application of Basic Numbers to Bessel's and Legendre's Functions. Dec. 8.*
- Basic Generalisations of some Well-known Analytical Functions. Jan. 12.
- Note on a Case of $F(\alpha, \beta, \gamma, \delta, \epsilon, i)$. Apr. 13.
- Jeans, J. H.*—The Kinematics and Dynamics of a Granular Medium in Normal Filing. Jan. 12.*
- Johnston, J. A. H.*—On the Intersections of Two Conic Sections. May 11.*
- Lamb, H.*—On Deep-Water Waves. Nov. 10.*
- Love, A. E. H.*—On the Strains that Accompany Bending. Apr. 13.
- The Stability of a Loaded Column. May 11.
- MacMahon, P. A.*—On a Deficient Multinomial Expansion. Dec. 8.*
- Miller, G. A.*—A Theorem relating to Quotient Groups. Nov. 10.
- Moulton, H. F.*—Current Flow in Rectangular Conductors. Jan. 12.*
- Trachtenberg, H. L.*—Isogonal Transformation and the Diameter Transformation. Jan. 12.
- Volterra, V.*—Note on the Application of the Method of Images to Problems of Vibrations. Nov. 10.*
- Western, A. E.*—On Fermat's Numbers and the Converse of Fermat's Theorem. Apr. 13.
- Wood, P. W.*—On the Reducibility of Covariants of Binary Quantics of Infinite Order. Parts 1 and 2. Nov. 10,* Feb. 9.
- Alternative Expressions for Perpetuant Types. Mar. 9.*
- On Irreducible Jacobians of Degree Six. Apr. 13.*
- Wright, J. E.*—Examples of Perpetuants. Nov. 10.*
- Young, A.*—On Certain Classes of Syzygies. Nov. 10.*
- Young, W. H.*—Ordinary Inner Limiting Sets in the Plane or Higher Space. Apr. 13.*

METEOROLOGICAL OFFICE,

63 VICTORIA STREET, S.W.

Director.—W. N. Shaw, Sc.D., F.R.S.

Meteorological Committee.—The Director (*Chairman*), Capt. Arthur Mostyn Field, R.N., F.R.S., Hydrographer to the Navy; Capt. A. J. G. Chalmers, of the Board of Trade; W. Somerville, Sc.D., of the Board of Agriculture; G. L. Barstow, of the Treasury; Prof. G. H. Darwin, M.A., LL.D., F.R.S.; Prof. Arthur Schuster, Ph.D., Sc.D., F.R.S.

Marine Superintendent: Commander M. W. Campbell Hepworth, C.B., R.N.R.

History.—The Office was established in 1854 by the President of the Board of Trade, in connection with the Marine Department of that Office, and Capt. (afterwards Vice-Admiral) Fitz-Roy was appointed Chief. He worked vigorously at Ocean Meteorology until 1860; then he turned his attention to Weather Telegraphy and to establishing the system of Storm-Warning Signals. Admiral Fitz-Roy died in 1865. In 1867 the Government placed the management of the Office under a Committee of the Royal Society, with a grant of £10,000 a year and free printing. This Committee continued Admiral Fitz-Roy's work and added a new branch—Land Meteorology. Gen. Sir E. Sabine was the first Chairman of the Committee,

and Mr R. H. Scott was appointed Director of the Office. In 1877 the Office was reconstituted, and placed under the management of a Council, nominated by the Royal Society. In 1905 the constitution was again altered, Dr W. N. Shaw was appointed Director, and the administration of the Parliamentary Grant was entrusted to a Committee appointed by the Treasury, with the Director as Chairman. The Office has an annual Parliamentary Grant of £15,300.

Operations.—These are comprised under three divisions, viz.,—1, Ocean Meteorology; 2, Weather Telegraphy and Storm Signals; and 3, Land Meteorology of the British Islands.

1. A complete set of verified Meteorological Instruments is supplied to all Mercantile Marine Officers undertaking to return the Instruments along with the Log of observations taken. Copies of all observations thus supplied are kept in the Office. By arrangement with the Admiralty, the ships of the Royal Navy are also supplied with Meteorological Instruments by the Office, and their observations are deposited at the Admiralty. Some officers of the Navy also keep special meteorological logs, and forward them to the Office. By these means the Council are in early possession of valuable observations which cover to some extent the navigable seas of the globe.

2. The Office receives Telegraphic Communications every morning, afternoon (except Sundays), and evening, from a number of Stations in Western Europe, from Bodö (Nordland) in lat. $67^{\circ} 15' N.$, to Nice in lat. $43^{\circ} 44' N.$, and to Lisbon in lat. $38^{\circ} 41' N.$ Telegrams are also received from the Azores. At British Stations the morning observations are taken at 8 A.M. The telegrams from about 60 Stations reach the Office in most cases between 8 and 10 A.M.; a chart is drawn up from the observations, and forecasts issued by 11 A.M. Forecasts are also issued at 8.30 P.M. to appear in the morning papers next day. Storm-warnings are sent out whenever the weather appears to be threatening. Daily weather charts are largely distributed.

3. Observations are made at Land Stations, which are grouped as those of the First, Second, or Third Order. Those of the First Order are few in number; they are provided with self-recording instruments, and make continuous observations. Several other Stations are also supplied with continuously registering anemometers or aneroid barographs. At the Second Order Stations observations are made daily at 9 A.M. and 9 P.M. At the Third Order Stations the observations are either not so complete, or are taken at abnormal hours. In every case careful precautions are taken to secure accuracy in observations, in corrections, and in calculations.

Communications.—They comprise chiefly Annual Reports, issued as Parliamentary publications; *Weekly Weather Reports*, with Monthly and Annual Supplements and Appendices, and *Daily Weather Reports*; *Hourly Readings*, obtained from self-recording Instruments; and *Observations at Stations of the Second Order*; Reports of International Meteorological Meetings; Popular Guides to Weather; and a number of special publications (charts, etc.) on Ocean Meteorology. These are sold by the agents for the sale of official publications given below.

Forecasts and Charts.—These are posted daily at the doors of the Meteorological Office, for inspection by the public. A copy of the 11 A.M. or 8.30 P.M. forecasts is supplied to Subscribers daily for 10s. per annum, exclusive of the cost of postage. The Daily Report is supplied for a subscription of £1 per annum post free if supplied by book post, or £2 per annum if delivered by hand to places near the Office. Single copies (price 1d.) may be obtained after 3 P.M. on the day of

issue at the Meteorological Office and at Messrs W. H. Smith & Sons' Bookstalls at the following Railway Stations:—Victoria, Charing Cross, King's Cross, St Pancras, Euston. The latest available information as to the weather in any district is supplied to any personal applicant between the hours of 10 A.M. and 8 P.M. on week-days and of 6.30 P.M. and 8 P.M. on Sundays, on payment of 6d. for each inquiry. For similar inquiries by letter the charge is 7d., and, by telegraph, 6d., payable at any Post or Telegraph Office in addition to the cost of a telegram and reply. The telegram containing the inquiry must be addressed: "Weather, London." The payment for the reply should be for 10 words, exclusive of the address. The Office is open for general inquiries between the hours of 10 A.M. and 4 P.M. on week-days (Saturdays 1 P.M.)

The Council have made arrangements for a special service of afternoon reports during the season of the Hay and Corn Harvests (1st June to 30th September), whereby they are enabled to issue a series of forecasts daily (Sundays excepted) at 3.30 P.M. (Saturdays about 7 P.M., if preferred). The forecasts for any district are supplied by telegraph to agriculturists and others upon prepayment of the cost of the telegrams (6d. each, including an address of three words) for the period during which the forecasts are required. Forms of application for these forecasts can be obtained at the Office.

Library.—It contains a valuable collection of meteorological books, charts, and MS. records, and is accessible to scientific men for reference at the Office.

Publications.—The latest issued are:—Daily Weather Report for 1904 (for subscription, see *Forecasts*). Weekly Weather Report for 1904, with Monthly and Annual Summaries, price 6d. each. Annual subscription, including Supplement and Appendices, post-paid, 30s. Meteorological Observations at Stations of the Second Order for the Year 1900, price 22s. 6d. Hourly Readings obtained from the Self-Recording Instruments at the four Observatories under the Meteorological Council, 1902, price 6d. each station per month. Report of the International Meteorological Committee, Southport, 1903, price 2s. Annual Report for 1903–1904, price 1s. 2d. Pilot Charts of the North Atlantic and Mediterranean, commencing April 1901, monthly, price 6d. each. A Barometer Manual for the Use of Seamen, with an Appendix on the Thermometer, Hygrometer, and Hydrometer. Fourth edition, extensively revised, price 3d. Hints to Meteorological Observers in Tropical Africa, price 9d.

Charts of North Atlantic Weather for the Winter of 1898–99, price 6s. 6d. Wind Charts for the Coastal Regions of South America, 7s. Monthly Wind Charts of the South Atlantic, 7s.

Rainfall Tables of the British Islands, 1866–90, price 6s. Diurnal range of Rain at the seven Observatories in connection with the Meteorological Office, 1871–90, price 2s. 6d.

Temperature Tables for the British Islands, 1871–1900, 10s. 6d. Supplement, 3s.

Fog.—London Fog Inquiry, 1901–03. Report by Capt. A. Carpenter, R.N. D.S.O., price 2s. Report of Meteorological Council, 1904, price 2s. 6d.

Climatological Observations in Tropical Africa, 1900–02, 6s.

The Annual Reports may be obtained at the appointed Sale Offices for Parliamentary Papers, or directly through any Bookseller. The Pilot Charts and Wind Charts are sold by J. D. Potter, 145 Minories, E. All other publications, except Daily Weather Reports (see *Forecasts*), are sold at Wyman & Sons, Fetter Lane, E.C.; Oliver & Boyd, Edinburgh; and Edward Ponsonby, 116 Grafton Street, Dublin.

ROYAL METEOROLOGICAL SOCIETY,

PRINCE'S MANSIONS, 70 VICTORIA STREET, WESTMINSTER, S.W.

(Founded 1850; Incorporated by Royal Charter in 1866; Accorded Permission to adopt the prefix "Royal" in 1883.)

Officers.—*President*: Richard Bentley, F.S.A., F.L.S. *Secretaries*: Francis Campbell Bayard, LL.M.; Hugh Robert Mill, D.Sc., F.R.S.E. *Assistant Secretary*: William Marriott, 70 Victoria Street, Westminster, S.W.

Meetings.—On the third Wednesday in each month, from November to June inclusive. The Meetings from November to April are held at the Institution of Civil Engineers, Great George Street, S.W., at 7.30 P.M. The Meetings in May and June are held at 70 Victoria Street at 4.30 P.M. The Anniversary Meeting took place on January 18, 1905.

Membership.—Entrance Fee, £1; Annual Subscription, £2; Life Composition, £21.

Publications.—1. *The Quarterly Journal*, containing the Papers read at the Meetings of the Society, Abstracts of the Discussions thereon, and notices of current meteorological publications and investigations, 5s. per number. 2. *The Meteorological Record*. This publication (which appears quarterly) contains the monthly results of the observations made at the Stations of the Royal Meteorological Society in England, Wales, and Ireland, price 1s. 6d.

Papers read during Session 1904–1905, and published in the "Quarterly Journal" of the Society. Separate copies of these Papers are kept on sale, price 6d. per half-sheet or portion thereof.

Ball, Dr J.—Logarithmic Slide-Rule for reducing Readings of the Barometer to Sea Level. May 17.

Bentley, R.—On the Growth of Instrumental Meteorology. Mar. 15.

Brodie, F. J.—Decrease of Fog in London during Recent Years. Nov. 16.

Dines, W. H.—An Account of the Observations at Crinan in 1904, and Description of a New Meteorograph for Use with Kites. Apr. 19.

Elias, Dr H., and J. H. Field.—Observations made during a Balloon Ascent at Berlin, September 1st, 1904. Feb. 15.

Fergusson, S. P.—Two New Meteorological Instruments: (1) Automatic Pole Star Light Recorder; and (2) the Ombroscope. June 21.

Holmes, R. L.—Hurricane in Fiji, January 21–22, 1904. Nov. 16.

Mawley, E.—Report on the Phenological Observations for 1904. Feb. 15.

Mill, Dr H. R.—Rate of Fall of Rain at Seathwaite. Apr. 19.

Royds, Lieut. C.—Meteorological Observing in the Antarctic. Nov. 16.

Shaw, Dr W. N., and W. H. Dines.—The Study of the Minor Fluctuations of Atmospheric Pressure. Dec. 21.

Simpson, G. C.—Normal Electrical Phenomena of the Atmosphere. June 21.

Strachan, R.—Measurement of Evaporation. May 17.

Sutton, J. R.—The Winds of East London, Cape Colony. Feb. 15.

Wilson-Barker, Capt. D.—The Connection of Meteorology with other Sciences. Jan. 18.

THE NATIONAL PHYSICAL LABORATORY,

BUSHY HOUSE, TEDDINGTON, MIDDLESEX.

Officer.—*Director* : R. T. Glazebrook, M.A., D.Sc., F.R.S.

Objects.—(1) The Determination of Suitable Standards of Measurement, and the Preservation and Maintenance of such Standards; (2) The Standardising and Testing of Instruments, and the Testing of Material, for Scientific and Commercial Purposes; (3) The Accurate Determination of Physical Constants; (4) The Conduct of Physical and Engineering Research of Scientific and Commercial Importance.

Publications.—*Annual Report*. Pamphlets relating to Tests undertaken, and Certificates given. These may be obtained free of charge on application to the Director. Vol. I. of the *Collected Researches of the Laboratory* has now been issued.

Outline of Work done during the Year.

Physics Department.

Electricity.—In regard to Electrical Units, the principal work of the year has been the construction of the Ampère Balance, to the designs of the late Prof. Viriamu Jones and Prof. Ayrton. This has now been completed, and is ready for the determination of the absolute unit of current. The work on Standard cells has been continued.

A research has been carried out on the distribution of temperature in the field coils of electrical machines, and a similar investigation for transformers is now in progress. Experiments have been made as to methods of testing the magnetic properties of iron. A new building for Electro-technical work will shortly be erected.

Thermometry.—The research on the specific heat of iron at high temperatures has been concluded. The means of obtaining and measuring temperatures up to about 2000° C. are being studied, and a new type of Electric furnace has been constructed for the purpose. With this a redetermination of the melting-point of platinum has been carried out.

Metrology.—The waste screw of the War Office standard screw-cutting lathe has been calibrated, and a compensating bar made. Various work has been undertaken for the Engineering Standards Committee.

Metallurgy.—Researches have been carried out on a series of Nickel-Carbon-Manganese-Iron Alloys, and in the critical ranges during heating and cooling of modern high-speed tools.

Photometry.—The investigations as to the effect of humidity and barometric pressure on the Pentane Standard have been completed. An inter-comparison of Standards with other countries has been carried out.

Optics.—A new photographic lens-testing bench has been installed, as well as benches for testing the lenses of oculists' trial cases, and for the determination of the absorption of light in prism binoculars.

Tide Prediction.—The India Office Tide-predicting Machine is in use for the preparation of the Indian Tide Tables. The Laboratory is prepared to undertake the analysis of tide-gauge records and the preparation of tide tables.

Engineering Department.

The wind-pressure experiments are being continued in the open on plates and models of structures. The alternating stress machine has been completed,

and the behaviour of various specimens is being examined. Further progress has been made with the research on the specific heat of superheated steam.

Tests undertaken :—

The principal testing work undertaken by the Laboratory is as follows :—

Electrical.—Testing of resistance boxes and coils, cables, insulating materials, carbons, etc. ; instruments for measurement of current and E.M.F. batteries, standard cells, condensers, standards of inductance. Also of specimens of iron and steel for permeability and hysteresis, motors for efficiency under various loads, arc lamps, etc.

Thermometric.—Verification of high range thermometers, resistance thermometers, and thermo-junctions.

Metallurgical.—Measurement of standards of length and verification of gauges ; determination of coefficients of expansion. Testing and calibration of glass vessels and weights.

Metallurgical.—Photomicrographic and chemical examination of metals, and, in particular, of steel rails.

Optical.—Tests on photographic lenses, photometric and life tests on electric lamps, refractive indices, dispersion constants, and absorption of optical materials, &c.

Engineering.—Tests on pressure and vacuum gauges, materials of construction, indicators and indicator springs, efficiency of machines, length and screw gauges, etc., etc.

THE NATIONAL PHYSICAL LABORATORY (OBSERVATORY DEPARTMENT),

RICHMOND, SURREY.

Superintendent : Charles Chree, LL.D., F.R.S.

The following testing work is undertaken at the Observatory Department of the National Physical Laboratory :—

The testing of barometers, thermometers, hydrometers, telescopes, sextants, theodolites, magnetic instruments and compasses, the rating of watches and chronometers, and the testing of all kinds of meteorological instruments.

Work of the Year.

The usual Magnetic, Meteorological, and Seismological Observations have been continued. An analysis of the results of the Falmouth Magnetographs from 1891 to 1902 has been completed, and has been published in the *Royal Society's Transactions*. Pendulum observations have been made in connection with the National Antarctic Expedition.

ROYAL OBSERVATORY, GREENWICH.

Officers.—*Astronomer-Royal* : Sir William Henry Mahoney Christie, K.C.B., M.A., F.R.S., F.R.A.S. *Chief Assistants* : F. W. Dyson, M.A., F.R.S., F.R.A.S., P. H. Cowell, M.A., F.R.A.S. *Assistants* : Edw. W. Maunder, F.R.A.S.; Wm. Grasett Thackeray, F.R.A.S.; T. Lewis, F.R.A.S.; H. P. Hollis, B.A., F.R.A.S.; W. W. Bryant, B.A., F.R.A.S.; and A. C. D.

Crommelin, B.A., F.R.A.S. *Established Computers*: (Higher Grade), C. Davidson; (Second Grade), D. J. R. Edney, W. Bowyer, H. H. Furner, W. M. Witchell, B.Sc., J. Storey, W. W. Melotte, P. Stevens, W. Burkett, and J. Evans. *Secretary, Librarian, etc.*: Henry Outhwaite.

Work done, May 1904 to May 1905.—Special attention has been given to the North Library, containing the Transactions of Societies and Periodical Literature. A new Card Catalogue has been made on the same lines as for the Astronomical Library. The Magnetic and Meteorological Library is in good order.

Astronomical Observations:—*Transit Circle*.—The Sun, Moon, planets, and fundamental stars have been regularly observed on the meridian as in previous years. Very great progress has been made in the observation of the reference stars for the Greenwich section of the Astrographic Catalogue (Dec. 65° to the Pole), about 9500 observations of R.A. and N.P.D. having been added during the year. The comparatively few observations required to secure five observations of each of the reference stars (more than 10,000 in number) will easily be obtained by the end of the year, as there are only 5 stars requiring 3 observations, 100 requiring 2, and 1500 requiring one observation only in order to carry out the programme. In fact, it may be taken that the observations for this catalogue are practically completed. The catalogue, which will be terminated this year, will contain, besides the Reference Stars for the Astrographic Catalogue, the 334 Zodiacal Stars given in the Nautical Almanac, for 1897. It is hoped that five observations of each of these stars will be secured. The Clock Stars have been well observed throughout the nine years, a minimum number of three observations of R.A. and two of N.P.D. being obtained each year with very few exceptions. It is proposed to begin next year a New Nine-year Catalogue of the Stars of magnitude 9.0 and brighter between the limits +24° to +32° of N. declination, this being the Oxford astrographic zone, for which they serve as reference stars. The comparison between theory and the Greenwich meridian observations of the Moon from 1750 to the present time, undertaken by Mr Cowell, has been completed for the longitudes, and the discussion from 1847 to 1901 is completed for the latitudes. The re-reduction of Groombridge's observations was completed at the date of the last report, and during this year the printing of the results has been pushed on. The Introduction has also been prepared for press.

Altazimuth.—Since the beginning of 1905 observations of the crater Mösting A, as well as of the limbs of the Moon, have been obtained in the second and third quarters whenever it is observable. The observations of transits will serve to connect the observations of the first and second limbs made before and after full respectively; and the observations of zenith distances will, in combination with similar observations now being made at the Cape Observatory, serve to determine the parallax of the Moon.

Reflex Zenith Tube.—During the year, 949 double observations and 58 single observations have been obtained, the number of different stars observed being 61. The brighter stars have been observed for as long periods of the year as possible. Thus, 78 observations of γ Draconis, 60 of β Draconis and 45 of ϵ^2 Cygni, distributed throughout the year, have been obtained; 34 observations of 30 Draconis extend from May 11 (in continuation of last year's series) to September 1, and from March 12 to May 10; while the group of five stars, 27 Lynceis, f Ursæ Majoris, Bradley 1306, Groombridge 1542, and θ Ursæ Majoris, was observed continuously from the middle of November to the middle of April, and the two stars β and 9 Lacertæ from August 29 to December 20. The reduction of the observations is completed to June 30, 1904, the work having fallen somewhat behind, owing to the heavy pressure of the transit-circle observations and reductions.

Equatorials.—During the year ending May 10, 1905, 42 disappearances and 15 reappearances of stars occulted by the Moon have been observed by one or more observers. Fourteen of the stars of which the disappearance was observed were below the limit of magnitude ($6^m.5$) hitherto adopted in the Nautical Almanac, and the occultation was not notified there. It is satisfactory to note that from 1907 the Nautical Almanac will include such stars in its occultation list.

The 28-inch Refractor.—This instrument has been used throughout the year for micrometric measurements of double stars. The total number of double stars measured during the year is 603; of these, 143 have their components less than $1''.0$ apart, and 60 less than $0''.5$. The close pairs whose distance apart is less than $1''.0$ have been measured on the average on $2\frac{1}{2}$ nights each, and the wider pairs on 2 nights. The wider pairs consist of bright stars with faint companions, stars of special interest, and stars from Struve's catalogue, which have not been measured within the last 30 years. A marked deterioration of the images of stars which could not altogether be accounted for by atmospheric conditions has been noticed of late, and as it seemed possible that this might be due to tilt of the lenses, owing to some modification of their original adjustment, a careful examination was made recently. It was found that the paper packing under two of the metal clips holding the lenses in position had dropped out, and thus a tilt between the two lenses may have been introduced. The defect was remedied, and the star images are now quite satisfactory.

Thompson Equatorial.—With the 26-inch refractor, 65 photographs of Neptune and its Satellite have been taken on 33 nights. The occulting shutter has been used as in previous oppositions. These photographs are now being measured. With the 30-inch reflector, the following photographs have been taken:—119 photographs of 59 minor planets; 77 photographs on 62 nights of Comet a 1904; 2 photographs on 1 night of Comet b 1904; 13 photographs on 12 nights of Comet c 1904; 8 photographs on 8 nights of Comet a 1905.

Measurement and Reduction of the Eros Photographs.—At the date of the last report 119 plates taken with the Astrographic Equatorial, and 55 taken with the Thompson Equatorial, had been measured. During this year the remainder of the photographs taken have been measured, making in all 198 with the Astrographic Equatorial and 152 with the Thompson Equatorial.

Astrographic Equatorial.—Work with this instrument has been in the main confined to replacing chart plates which, though satisfactory in other respects, are, owing to slight photographic defects, unsuitable for production of enlarged prints. Altogether 224 photographs have been taken on 83 nights. Of these 42 have been rejected; 22 with exposure unfinished, owing to cloud, or as not reaching the standard in showing faint stars; 11 owing to faults in the plate; 9 owing to errors in setting or faults shown in development.

Magnetic Observations.—The principal results for the magnetic elements for 1904 are as follows:—Mean declination $16^{\circ}15'0''$ West; mean horizontal force 4.0166 (in British units), 1.8520 (in Metric units); mean dip (with 8-inch needles), $66^{\circ}57'11''$. These results depend on observations in the Magnetic Pavilion, and are free from any disturbing effect of iron in the Observatory buildings. In 1904 there were no days of great magnetic disturbance and 8 of lesser disturbance. Traces of the photographic curves for these days will be published in the annual volume.

Meteorological Observations.—The mean temperature for the year 1904 was $49^{\circ}.8$, or $0^{\circ}.3$ above the average for the fifty years 1841–90. During the twelve months ending April 30, 1905, the highest temperature in the shade (recorded on the open stand in the Magnetic Pavilion enclosure) was $91^{\circ}.0$, on August 4. On

the same day the highest temperature in the Stevenson screen in the Magnetic Pavilion enclosure was $89^{\circ}\cdot5$, and in the Observatory grounds $89^{\circ}\cdot7$. The lowest temperature of the air recorded in the year was $19^{\circ}\cdot5$, on January 1. During the winter there were 39 days on which the temperature fell below $32^{\circ}\cdot0$, being 17 less than the average number. The mean daily horizontal movement of the air in the year ending April 30, 1905, was 280 miles, which is 2 miles below the average of the preceding thirty-seven years. The greatest recorded daily movement was 867 miles, on November 9, and the least 49 miles, on December 22. The greatest recorded pressure of the wind was 23·5 lbs. on the square foot, on March 12, and the greatest hourly velocity 45 miles, on December 30. The number of hours of bright sunshine recorded during the twelve months ending April 30, 1905, by the Campbell-Stokes instrument, was 1486 out of 4457 hours during which the sun was above the horizon, so that the mean proportion of sunshine for the year was 0·333, constant sunshine being represented by 1. The rainfall for the year ending April 30, 1905, was 20·21 inches, being 4·33 inches less than the average of the fifty years 1841-90. The number of rainy days was 153. This small rainfall may be contrasted with the heavy rainfall of 35·42 inches in the corresponding period last year. The most striking contrast is obtained by comparing the rainfall for the year commencing March 1, 1903, which was over 37 inches, with that for the year commencing March 1, 1904, which was less than $17\frac{1}{2}$ inches. This dry period of twelve months was followed by a heavy rainfall in March 1905, which exceeded $3\frac{1}{2}$ inches, and is the greatest amount recorded in March since 1851.

Provision has been made in the Navy Estimates for the observation of the total Solar Eclipse of August 30, 1905, by a party of three observers on the coast of Tunis, where the weather conditions are promising. It is proposed to take photographs of the corona for detail and extension with the Thompson 9-inch coronagraph, the 13-inch astrographic refractor, and the 4-inch Dallmeyer rapid rectilinear lens, and also photographs of the spectrum with the two spectroscopes lent by Major Hills, R.E., as in 1900 and 1901. On the invitation of the Canadian Government, Mr Maunder is joining their expedition to Labrador to observe the eclipse at the other end of the track, taking the Dallmeyer 4-inch coronagraph and a 4-inch rapid rectilinear lens for photographs of the corona, as in Mauritius in 1901.

PHYSICAL SOCIETY OF LONDON,

ROYAL COLLEGE OF SCIENCE, S. KENSINGTON, S.W.

(FOUNDED IN 1874, AND REGISTERED UNDER THE COMPANIES ACT.)

Officers.—*President*: Prof. J. H. Poynting, M.A., F.R.S. *Secretaries*: W. Watson, D.Sc., F.R.S., 7 Upper Cheyne Row, S.W.; W. R. Cooper, M.A., 82 Victoria Street, S.W.

Meetings.—Ordinary Meetings on the second and fourth Fridays of the month from November to June inclusive, alternately at 8 P.M. and 5 P.M., at the Physical Lecture Room, Royal College of Science, South Kensington. The Annual General Meeting is in February.

Membership.—Entrance Fee, £1, 1s. ; Annual Subscription, £2, 2s. ; Students, 10s. 6d. ; Life Composition, Thirty Guineas.

Publications.—*Proceedings*, published four times a year (Taylor & Francis), 20s. per annum; *Bulletin*, published after each Meeting; and *Science Abstracts*, published jointly with the Institution of Electrical Engineers, monthly, 1s. 6d.

*List of Papers read during Session 1904–1905. Those marked * have been published.*

- Allan, Dr G. E.*—Note on a Property of Lenses. Oct. 28.
- Appleyard, R.*—Contact with Dielectrics. June 16.
- Bell, C.*—Determination of Young's Modulus (Adiabatic) for Glass. Jan. 27.
- Callendar, Prof. H. L.*—A Bolometer for the Absolute Measurement of Radiation. May 12.
- Campbell, A.*—Direct Reading Resistance Thermometers. Mar. 10.
- Chree, Dr C.*—The Stresses in the Earth's Crust before and after the Sinking of a Bore-hole. Mar. 10.
- Clinton, W. C.*—The Voltage Ratios of an Inverted Rotary Converter. Mar. 24.
- Drysdale, Dr C. V.*—The Curvature Method of Teaching Geometrical Optics. Feb. 24.
- Duddell, W.*—A High Frequency Alternator. Dec. 9.*
- Dyke, G. B.*—The Determination of the Mean Spherical Candle-Power of Incandescent and Arc Lamps. Nov. 11.*
- The Flux of Light from the Electric Arc, with Varying Power Supply. Mar. 24.
- Fleming, Prof. J. A.*—The Application of the Cymometer and the Determination of the Coefficient of Coupling of Oscillation Transformers. Mar. 24.
- and *G. B. Dyke.*—The Ratio between the Mean Spherical and the Mean Spherical and the Mean Horizontal Candle-Power of Incandescent Lamps. June 16.
- Lanchester, F.*—The Pendulum Accelerometer: an Instrument for the Direct Measurement and Recording of Acceleration. June 16.
- Lyle, Prof. T. R.*—Investigation of the Variations of Magnetic Hysteresis with Frequency. Nov. 11.*
- Morrow, J.*—The Lateral Vibration of Bars of Uniform and Varying Sectional Area. Mar. 10.
- An Interference Apparatus for the Calibration of Extensometers. Oct. 28.*
- Owen, D.*—The Comparison of Electric Fields by Means of an Oscillating Electric Needle. June 30.
- Peck, J., and Dr R. S. Willows.*—The Action of Radium on the Electric Spark. Jan. 27.*
- Phillips, P.*—The Slow Stretch in India-rubber, Glass, and Metal Wires Subjected to a Constant Pull. Jan. 27.
- Poynting, Prof. J. H.*—Radiation Pressure. Feb. 10.*
- Price, W. A.*—The Resistance of a Conductor the Measure of the Current Flowing through it. May 12.
- Sowler, R. J.*—Ellipsoidal Lenses. Apr. 14.
- Stanford, N. V.*—A New Form of Pyknometer. June 16.
- Sumpner, Dr W. E.*—The Measurement of Small Differences of Phase. Nov. 25.*
- Thompson, Dr S. P.*—On a Rapid Method of Approximate Harmonic Analysis. Dec. 9.*
- Thornton, Dr W. M.*—A Sensitive Hygrometer. Oct. 28.
- Watkin, E. L., and J. Morrow.*—An Interference Apparatus for the Calibration of Extensometers. Oct. 28.*
- Watson, Dr W.*—The Determination of the Moment of Inertia of the Magnets used in the Measurement of the Horizontal Component of the Earth's Field. Apr. 14.
- Weinberg, Dr B.*—Some Methods of Studying the Viscosity of Solids. Jan. 27.*
- Willows, Dr R. S.*—The Action of a Magnetic Field on the Discharge through a Gas. Jan. 27.*
- and *J. Peck.*—The Action of Radium on the Electric Spark. Jan. 27.*
- Wilson, Dr H. A.*—The Electrical Conductivity of Flames. June 16.
- Wood, Prof. R. W.*—The Magnetic Rotatory Dispersion of Sodium Vapour. June 30.
- The Fluorescence of Sodium Vapour. June 30.

THE FARADAY SOCIETY.

(FOUNDED 1903.)

Officers.—*President*: Lord Kelvin, O.M., G.C.V.D., F.R.S. *Secretary*: F. S. Spiers, B.Sc., A.M.I.E.E., 82 Victoria Street, S.W.

Objects.—To promote the study of Electrochemistry, Electrometallurgy, Chemical Physics, Metallography, and kindred subjects.

Meetings.—There are about eight in the year. They are held by kind permission in the Library of the Institution of Electrical Engineers, 92 Victoria Street, London, S.W.

Membership.—Entrance Fee, Members only, £1. Annual Subscription: Members, £2; Students, £1.

Publications.—*Transactions*, quarterly. *Proceedings*, monthly. Members also receive, free of charge, the *Transactions* of the American Electrochemical Society.

List of Papers read during Session 1904–1905, and published in "Transactions."

- Brislee, F. J.**, M.Sc.—The Potential of the Hydrogen Oxygen Cell. Nov. 23.
Cowper-Coles, S.—Notes on the Rapid Electro-deposition of Copper. July 3.
Denison, R. B., B.Sc., Ph.D.—On the Equilibrium Sodium and Magnesium Sulphates. Jan. 30.
Gee, Prof. W. W. H., B.Sc.—The Use of Balanced Electrodes. July 5.
Gelstharpe, F.—Note on the Electrolytic Recovery of Tin. Dec. 19.
 — Electrolytic Preparation of Tin Paste. Dec. 19.
Harbord, F. W., F.I.C.—Recent Developments in Electric Smelting in connection with Iron and Steel. Mar. 6.
Hiorns, A. H.—Alloys of Copper and Bismuth. Apr. 4.
Hutton, R. S., M.Sc., and **J. R. Beard.**—Notes on Heat Insulation, particularly with regard to Materials used in Furnace Construction. July 3.
 — and **W. H. Patterson**, B.Sc.—Electrically Heated Carbon Tube Furnaces. Apr. 4.
Kahlenberg, Prof. L., Ph.D.—Recent Investigations bearing on the Theory of Electrolytic Dissociation. Nov. 23.
Law, H. D., B.Sc., and **F. M. Perkin**, Ph.D.—Electrolytic Oxidation of Hydrocarbons of Benzene Series. Part I. Oct. 25.
 — Do. do. Part II. July 3.
Lowry, T. M., D.Sc.—An Application of Electrolytes to the Hydrate Theory of Solutions. May 18.
Minet, A.—The Electric Furnace: Its Origin, Transformations, and Applications. Part II. Dec. 19.
Perkin, F. M., and **W. C. Prebble.**—Electrolytic Analysis of Cobalt and Nickel. Dec. 19.
Pool, E., B.Sc.—Note on a Suggested New Source of Aluminium. Oct. 25.
Rhodin, J. G. A., F.I.C.—Mass Analyses of Muntz's Metal by Electrolysis, and some Notes on the Electrolytic Properties of this Alloy. Jan. 30.
Sand, H. J. S., Ph.D., M.Sc.—On the Measurement of the Potential of the Electrodes in Stationary Liquids. The Determination of Changes of Concentration at the Cathode during Electrolysis. Oct. 25.

MATHEMATICAL ASSOCIATION,

KING'S COLLEGE, STRAND, W.C.

(FOUNDED 1871.)

Officers.—*President*: G. B. Mathews, M.A., F.R.S. *Secretaries*: C. Pendlebury, M.A., F.R.A.S., St Paul's School, W.; H. D. Ellis, M.A., 12 Gloucester Terrace, Hyde Park, W.

Meetings.—An Ordinary Meeting is held once in each Academical term, on the first Thursdays in May and October, at 8 P.M., at King's College, Strand, W. The Anniversary Meeting takes place in January.

Membership.—Annual Subscription (including subscription to the *Mathematical Gazette*), 10s.; Life Composition, £5, 5s.

Publications.—*Mathematical Gazette* (issued six times a year), price 1s. 6d. each (G. Bell and Sons). The *Teaching of Elementary Mathematics*, Second Edition, 6d.

List of Principal Papers read during Session 1904–1905.

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| <i>Langley, E. M.</i> —Models and their Use. Jan. 28. | Compulsory for Mathematicians at Cambridge? Jan. 28. |
| <i>Siddons, A. W.</i> —Should Greek be | <i>Wagstaff, W. H.</i> —The New Geometry. Jan. 28. |

AERONAUTICAL SOCIETY OF GREAT BRITAIN,

53 VICTORIA STREET, WESTMINSTER, S.W.

Officers.—*President*: Major B. F. S. Baden-Powell. *Hon. Secretary*: E. S. Bruce, M.A., 53 Victoria Street, Westminster.

Meetings.—Ordinary Meetings are held occasionally.

Membership.—Annual Subscription, One Guinea. No Entrance Fee.
Life Composition, Ten Guineas.

Publication.—*Aeronautical Journal*, quarterly, 1s.

*List of Papers read during Session 1904–1905. Those marked * have been published.*

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| <i>Alexander, P. Y.</i> —Some Recent Experiments in Aërodynamics. Mar. 14.* | <i>Hawkins, G. C.</i> —Automatic Stability. Mar. 14.* |
| <i>Baden-Powell, Major.</i> —The Aëronautical Exhibits at the St Louis Exhibition. Dec. 2.* | <i>Hugessell, Dr M. H.</i> —The Work of the International Aëronautical Commission. Dec. 2.* |
| <i>Brewer, G.</i> —Captive Balloon Photography. Dec. 2.* | <i>Hutchinson, Dr F. W. H.</i> —Notes on a Bird-Like Flying Machine. July 1.* |
| <i>Bruce, E. S.</i> —The Shape of Navigable Balloons. Mar. 14.* | <i>Reid, W. F.</i> —Balloon Varnishes and their Defects. July 12.* |
| <i>Burgoyne, A. H.</i> —Note on an Aluminium Kite. Mar. 14.* | <i>Walker, W. G.</i> —The Thrust of Aërial Propellers. July 12.* |
| <i>Dines, W.</i> —Kites, Kite Flying, and Aëroplanes. Dec. 2.* | <i>Wenham, F. H.</i> —Some Remarks on Aërial Flight. July 12. |

THE AERONAUTICAL INSTITUTE AND CLUB,

ST BRIDE'S FOUNDATION, LUDGATE CIRCUS, E.C.

(FOUNDED DECEMBER 1901.)

Officers.—*President*: Dr F. A. Barton. *Founder*: P. L. Senecal. *Hon. Secretary*: V. W. Ledger, 14 Manor Road, Beckenham.

Meetings.—First Tuesday in each month at 8 P.M. The Anniversary Meeting takes place in December.

Membership.—Annual Subscription, 10s. No Entrance Fee.

Papers read during the Session 1904–1905.

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| <i>Barton, Dr F. A.</i> —New Type of Air Ship. Jan. | <i>Hawken, Prof.</i> —A New Form of Aero-plane. Apr. |
| <i>Blanchard, C. T.</i> —The True Laws of Flight. Nov. | <i>Nicholl, G.</i> —Soaring and Gliding Machines. Aug. |
| <i>Gaudron, A. E.</i> —Parachutes. Sept. | <i>Rawson, Col., R.E.</i> —Forecasting Weather for Airship Trials. Mar. |

THE OPTICAL SOCIETY,

20 HANOVER SQUARE, W.

Officers.—*President*: S. P. Thompson, D.Sc., B.A., F.R.S. *Secretary*: H. V. Hopwood.

Meetings.—Monthly, from October to July. The Annual Meeting is held in February.

Membership.—Entrance Fee (suspended for first 500 Members), One Guinea. Annual Subscription: Members, 21s.; Student Members, 10s. 6d.

Publication.—*Transactions*, free to Members; 10s. per vol. to Non-Members.

Papers read during Session 1904–1905, and published in "Transactions."

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| <i>Brown, T.</i> —Direct Stereoscopic Projection. Dec. 15. | <i>Phillips, L. W.</i> —Measurement of Absorption in Tinted Glasses. Feb. 13. |
| <i>Bull, A. J.</i> —Some Notes on the Nature of Vision. Apr. 17. | <i>Rosenhain, W.</i> —Lighthouses. June 23. |
| <i>Chalmers, S. D., and H. S. Ryland.</i> —A Method of Testing Prisms. Jan. 16. | <i>Thompson, S. P.</i> —The Early Literature of Optics. (Presidential Address.) Mar. 16. |
| <i>Dixey, W. A.</i> —Periscopic Lenses. Nov. 14. | |

LEEDS ASTRONOMICAL SOCIETY,

YOUNG MEN'S CHRISTIAN ASSOCIATION ROOM, 23 BOND STREET.

(FOUNDED 1862.)

Officers.—*President*: H. Wyles, L.D.S. *Hon. Secretary*: R. A. Wilson, Westfield, Armley, Leeds.

Meetings.—Ordinary Meetings are held on the second Monday during the Session at 7.30 P.M. The Annual Meeting in January.

Membership.—Annual Subscription: Honorary members, 10s.; Ordinary, 5s.

Publication.—*Journal and Transactions* for 1903, 2s.

[No Return.]

THE PRIESTLEY CLUB,

THE UNIVERSITY, LEEDS. (FOUNDED 1875.)

Officers.—*President*: Dr T. E. Thorpe, C.B., F.R.S. *Hon. Secretary*: H. M. Dawson, Ph.D., B.Sc., The University, Leeds.

Meetings.—Twice monthly, on Tuesdays, during winter. The Annual Meeting is held in October.

Membership.—No Entrance Fee; Annual Subscription, 5s.

Objects.—To promote social intercourse and the discussion of Scientific subjects amongst Professional and Scientific men in Leeds and its surrounding districts.

[No Return.]

SCOTLAND.

EDINBURGH MATHEMATICAL SOCIETY,

THE EDINBURGH INSTITUTION, 8 QUEEN STREET.

(FOUNDED 1883.)

Officers.—*President*: W. L. Thomson, M.A., B.A. *Hon. Secretary*: P. Pinkerton, 36 Morningside Grove, Edinburgh.

Meetings.—Ordinary Meetings are held at 8 p.m. on the second Friday of the months, November to March, May and June. The Anniversary Meeting is held in November.

Membership.—No Entrance Fee; Annual Subscription, 7s. 6d. Life Composition, for Residents abroad only, £4.

Publication during 1904.—*Proceedings*, 7s. 6d.

List of Papers read and published during Session 1904–1905.

Aiyar, V. R.—Notes on Inequalities. May 12.

Bromwich, T. J. Ia.—The Ambiguous Cases in the Solution of Spherical Triangles. Feb. 10.

Brown, Prof. A.—The Ratio of Incommensurables in Elementary Geometry [Title]. June 9.

Burgess, A. G.—On the Orthoptic Locus of the Semi-cubical Parabola [Title]. Mar. 10.

Collignon, E.—Recherches sur L'Enveloppe des Pédales des divers Points d'une Circonférence par Rapport à un Triangle Inscrit. Nov. 11.

—Démonstrations de deux Théorèmes de Géométrie. Dec. 9.

Davis, R. F.—Note on the Determination of the Axes of a Conic. June 9.

Holm, A.—Determination of the Radii of the Circles which touch Three given Circles. Mar. 10.

Lindsay, W. A.—A Proof of the

Theorem that the Arithmetic Mean of n Positive Quantities is not less than their Harmonic Mean [Title]. June 13.

M'Intyre, J. H. A.—On Mathematical Instruments and the Accuracy to be Obtained with them in some Elementary Practical Problems [Title]. May 12.

Mackay, J. S.—Bibliography of the Envelope of the Wallace Line (the Three-cusped Hypocycloid). May 12.

Miller, J. N.—A Method of Dividing the Circumference of a Circle into 360 Equal Parts. Feb. 10.

Muir, T.—The Condensation of Continuants. Nov. 11.

Muirhead, R. F.—Some Proofs of Newton's Theorem on Sums of Powers of Roots. Mar. 10.

—A Proof of Waring's Expression for Σa^n in Terms of the Coefficients of an Equation. Mar. 10.

- Picken, D. K.*—The Proof by Projection of the Addition Theorem in Trigonometry. Dec. 9.
- A Direct Method of Obtaining the Foci and Directrices from the General Equation $(a, b, c, f, g, h)(x, y, 1)^2 = 0$. June 9.
- Pinkerton, F.*—The Turning-Values of Cubic and Quartic Functions and the Nature of the Roots of Cubic and Quartic Equations. Dec. 9.
- Ross, E. B.*—Contact between a Curve and its Envelope. Jan. 13.
- Taylor, D. G.*—Polar Loci. Feb. 10.
- Valentine, G. D.*—Two Theorems on the Factors of $2^p - 1$ [Title]. Jan. 13.

SCOTTISH METEOROLOGICAL SOCIETY,

122 GEORGE STREET, EDINBURGH.

Officers.—*President*: Lord M'Laren. *Vice-President and Chairman of Medico-Climatological Committee*: Sir A. Mitchell, K.C.B., M.D., LL.D. *Hon. Secretary*: R. T. Omond. *Hon. Treasurer*: W. B. Wilson, W.S. *Meteorological Secretary*: Alexander Buchan, M.A., LL.D., 122 George Street, Edinburgh.

Meetings.—Meetings are held as advertised.

Membership.—No Entrance Fee; Minimum Annual Subscription, 10s. 6d.; Life Composition, Ten Guineas.

Publication.—*Journal*, 15s.

SECTION III.

CHEMISTRY AND PHOTOGRAPHY.

LONDON.

CHEMICAL SOCIETY,
BURLINGTON HOUSE, PICCADILLY.

Officers.—*President*: Prof. Raphael Meldola, F.R.S. *Treasurer*: A. Scott, D.Sc., F.R.S. *Secretaries*: M. O. Foster, D.Sc., Ph.D., F.R.S.; Prof. A. W. Crossley, D.Sc., Ph.D. *Foreign Secretary*: Sir W. Ramsay, K.C.B., F.R.S., LL.D. *Assistant Secretary*: S. E. Carr. *Librarian*: F. W. Clifford.

Meetings.—First and third Thursdays in each month, at 8.30 p.m., from November to June inclusive. The Anniversary Meeting takes place in March.

Membership.—Admission Fee, £4; Annual Subscription, £2; Life Composition, £30.

Publications during 1904 and 1905.—*Proceedings*, 7s. 6d. per annum; *Journal*, £2 per annum; *Collective Index*, Vol. IV. 1893–1902, Parts 1 and 2, 30s. complete. (*Index of Subjects* to be published in 1905). Vol. I. of the *Annual Reports on the Progress of Chemistry* for 1905, 4s. 6d.

Papers communicated, July 1904 to June 1905. Abstracts of all appear in the "Proceedings."

Anderson, W. C.—The Formation of Magnesia from Magnesium Carbonate by Heat and the Effect of Temperature on the Properties of the Product. Jan. 18.

Armstrong, H. E., and W. Robertson.—The Significance of Optical Properties as Connoting Structure: Camphorquinone—Hydrazones—Oximes: a Contribution to the Theory of the Origin of Colour and to the Chemistry of Nitrogen. June 1.

Ashby, S. F.—The Comparative Nitri-fying Power of Soils. *Vac.*

Ball, W. C.—Complex Nitrites of Bismuth. Apr. 19.

Baly, E. C. C., and J. N. Collie.—The Ultra-violet Absorption Spectra of Aromatic Compounds. Part I. Benzene and Certain Mono-substituted Derivatives. June 14.

Baly, E. C. C., and E. K. Eubank.—The Ultra-violet Absorption Spectra of Aromatic Compounds. Part II. The Phenols. June 14.

—The Ultra-violet Absorption Spectra of Aromatic Compounds. Part III. Disubstituted Derivatives of Benzene. June 14.

—and *C. H. Desch.*—The Ultra-violet Absorption Spectra of certain Enol-ketotautomerides. Part II. Mar. 15.

Barger, G.—Association in Mixed Solvents. June 14.

—and *H. A. D. Jowett.*—Synthesis of Substances Allied to Epinephrine. June 14.

Baron, H., F. G. P. Remfry, and J. F. Thorpe.—The Formation and Reactions of Imino-compounds. I. Condensation of Ethyl Cyanoace-

CHEMICAL SOCIETY—continued.

- tate with its Sodium Derivative. Dec. 1.
- Bone, W. A., and H. L. Smith.**—The Thermal Decomposition of Formaldehyde and Acetaldehyde. May 17.
- and **R. V. Wheeler.**—The Combustion of Ethylene. Nov. 3.
- Brame, J. S. S.**—The Action of Acetylene on Aqueous and Hydrochloric Acid Solutions of Mercuric Chloride. Apr. 6.
- Brown, J. C.**—The Latent Heat of Evaporation of Benzene and some other Compounds. Mar. 2.
- A Precise Method of Estimating the Organic Nitrogen in Potable Waters. June 14.
- Brühl, J. W., and H. Schröder.**—The Desmotropic Form of Substances of the Ethyl Acetoacetate Type in the Homogeneous State and Dissolved in Neutral Media. May 17.
- Buchanan, J. Y.**—A Method of Determining the Specific Gravity of Soluble Salts by Displacement in their own Mother Liquor, and its Application in the Case of the Alkali Halides. Apr. 6.
- Burgess, H. E., and T. H. Page.**—Note on Bergamot Oil and other Oils of the Citrus Series. Vac.
- Burt, B. C.**—The Vapour Pressures of Sulphuric Acid Solutions and the Molecular Condition of Sulphuric Acid in Concentrated Solution. Vac.
- Cain, J. C.**—The Diazo-Reaction in the Diphenyl Series. Part II.—Ethoxybenzidine. Dec. 14.
- and **G. M. Norman.**—The Action of Water on Diazo-Salts. A Preliminary Note. June 14.
- Caldecott, W. A.**—The Influence of Sunlight on the Dissolution of Gold in Aqueous Potassium Cyanide. Nov. 3.
- Caven, R. M.**—Complex Ammonium Antimonious Halides. June 1.
- Chapman, D. L., and A. Holt, jun.**—The Synthesis of Formaldehyde. May 17.
- Chattaway, F. D.**—Sulphonchloroalkylamides. Nov. 3.
- Nitrogen Halogen Derivatives of the Sulphonamides. Jan. 18.
- Nitrogen Halogen Derivatives of the Aliphatic Diamines. Feb. 15.
- and **W. H. Lewis.**—Isomeric Change of Diacylanilides into Acylaminoketones. Transformation of Dibenzoylaminobenzo-
- phenone into 1-Benzoylamino-2:4-Dibenzoylbenzene. Nov. 16.
- Chattaway, F. D.**—The Action of Hypobromous Acid on Piperazine. June 1.
- Chikashige, M.**—Oxymymeric Perchlorates and the Action of Alcohol on Mercury Perchlorates. May 17.
- Cohen, J. B., and H. G. Bennett.**—Studies in Chlorination. The Chlorination of the Isomeric Chloronitrobenzenes. Mar. 2.
- and **H. D. Dakin.**—The Chlorination of the Trichlorotoluenes in Presence of the Aluminium-mercury Couple. The Constitution of the Tetrachlorotoluenes. Part V. Vac.
- **H. M. Dawson, and P. F. Crossland.**—Studies in Chlorination. II.—The Action of Chlorine on Boiling Toluene. Preliminary Notice. June 14.
- and **J. Gatecliff.**—The Basic Properties of Oxygen: Compounds of the Ethers with Nitric Acid. Nov. 3.
- and **J. Miller.**—The Influence of Substitution in the Nucleus on the Rate of Oxidation of the Side-chain. Part II.—Oxidation of the Halogen Derivatives of Toluene. Nov. 16.
- and **H. S. Raper.**—The Relation of Position Isomerism to Optical Activity. II.—The Rotation of the Menthyl Esters of the Isomeric Chlorobromobenzoic Acids. Vac.
- The Relation of Position Isomerism to Optical Activity. III.—The Rotation of the Menthyl Esters of the Isomeric Iodobenzoic Acids. Vac.
- Collie, J. N.**—A Method for the Rapid Ultimate Analysis of certain Organic Compounds. Vac.
- Note on Methyl Fluoride. Vac.
- Synthesis by Means of the Silent Electric Discharge. June 14.
- Crossley, A. W., and N. Renouf.**—Synthesis of 1:1-Dimethylhexahydrobenzene. Dec. 1.
- Synthesis of 1:1-Dimethyl- Δ^2 -Tetrahydrobenzene. June 14.
- Dakin, H. D.**—The Fractional Hydrolysis of Amygdalinic Acid. *iso*-Amygdalin. Nov. 3.
- The Synthesis of Substances Allied to Adrenaline. May 4.
- Dean, G.**—The Bromination of Silver Cyanate. Vac.

CHEMICAL SOCIETY—*continued.*

- Debus, H.*—Contributions to the History of Glyoxylic Acid. *Vac.*
- Dixon, A. E., and J. Hawthorne.*—The Tautomerism of Acetyl Thiocyanate. Apr. 6.
- Dobbie, J. J., and C. K. Tinkler.*—The Constitution of Phenylmethylacridol. Mar. 2.
- The Ultra-violet Absorption Spectra of certain Diazo-compounds in Relation to their Constitution. Mar. 2.
- Doran, R. E.*—The Influence of Temperature on the Interaction between Acetyl Thiocyanate and certain Bases. Thio-carbamides, including Carboxy-aromatic Groups. Mar. 2.
- Dunstan, A. E.*—The Viscosity of Liquid Mixtures. Part II. Dec. 14.
- Farmer, R. C., and F. J. Warth.*—The Affinity Constants of Aniline and its Derivatives. Dec. 1.
- Fawcitt, C. E.*—The Decomposition of Methylcarbamide. Nov. 3.
- The Kinetics of Chemical Changes which are Reversible. The Decomposition of *as*-dimethylcarbamide. Apr. 6.
- Fenton, H. J. H.*—Further Studies on Dihydroxymaleic Acid. May 17.
- Findlay, A., and F. C. Short.*—Behaviour of Solutions of Propyl Alcohol towards Semipermeable Membranes. May 17.
- and *W. E. S. Turner.*—The Influence of the Hydroxyl and Alkoxy Groups on the Velocity of Saponification. Part I. Apr. 6.
- Fleming-Struthers, R. de J.*—Some Interactions of Metallic Cyanides with Organic Bases. Mar. 15.
- and *J. E. Marsh.*—Photographic Radiation of some Mercury Compounds. Feb. 15.
- Forster, M. O.*—Action of Magnesium Alkyl Halides on Derivatives of Camphor. Nov. 3.
- Configuration of *isonitroso*-camphor and its Unstable Modification. Jan. 25.
- and *H. E. Fierz.*—Camphoryl-carbimide. Jan. 25.
- Camphoryl- ψ -semicarbazide. May 4.
- Camphorylazoimide. June 1.
- and *H. M. Judd.*—A New Formation of Acetylcamphor. Apr. 6.
- Francis, F. E., and O. C. M. Davis.*—The Action of Nitrogen Sulphide on Organic Substances. Part II. Nov. 3.
- Frankland, P. F., and E. Done.*—The Resolution of Inactive Glyceric Acid by Fermentation and by Brucine. Apr. 19.
- and *N. L. Gebhard.*—The Ethereal Salts and Amide of Dimethoxypropionic Acid derived from *d*-Glyceric Acid. June 1.
- and *J. Harger.*—Position Isomerism and Optical Activity; the Methyl and Ethyl Esters of di-*o*-, -*m*-, and -*p*-nitrobenzoyltartaric Acids. Nov. 3.
- and *D. F. Twiss.*—The Grignard Reaction applied to the Esters of Hydroxy-Acids. Dec. 1.
- Friend, J. A. N.*—Note on the Influence of Potassium Persulphate on the Estimation of Hydrogen Peroxide. Nov. 3.
- Estimation of Potassium Permanganate in the Presence of Potassium Persulphate. Apr. 19.
- Estimation of Hydrogen Peroxide in the Presence of Potassium Persulphate. June 1.
- Goodwin, W. L., and W. H. Perkin, jun.*—The Reduction of isophthalic Acid. Part II. June 1.
- Gray, R. W.*—The Atomic Weight of Nitrogen. Preliminary Notice. May 4.
- Green, A. G.*—The Colouring Matters of the Stilbene Group. I. *Vac.*
- F. Sholefield, and F. Marsden.*—The Colouring Matters of the Stilbene Group. II. *Vac.*
- Guttmann, L. F.*—The Determination of Melting Points at Low Temperatures. June 14.
- Hann, A. C. O., and A. Lapworth.*—Reactions Involving the Addition of Hydrogen Cyanide to Carbon Compounds. Part IV.—Addition of Hydrogen Cyanide to Benzylidenacetophenone. *Vac.*
- Harden, A., and W. J. Young.*—The Influence of Phosphates on the Fermentation of Glucose by Yeast Juice. Preliminary Communication. June 1.
- Hartley, W. N.*—The Spectrum generally Attributed to "Chlorophyll" and its Relation to the Spectrum of Living Green Tissues. Nov. 16.
- The Absorption Spectra of Uric Acid, Murexide, and the Ureides, in Relation to Colour, and their Chemical Structure. May 17.

CHEMICAL SOCIETY—continued.

- Hartley, W. N.**—Observations on Chemical Structure and Physical Properties Associated with the Theory of Colour. May 17.
- Henderson, G. G., and T. Gray.**—The Action of Chromyl Chloride on Stilbene, Styrene, and Phenanthrene. *Vac.*
- Hewitt, J. T., and H. V. Mitchell.**—The Nitration of Substituted Azophenols. Feb. 15.
- Hills, J. S., and W. P. Wynne.**—Linin. Mar. 2.
- Ingle, H.**—The Available Plant Food in Soils. Nov. 3.
- Irvine, J. C., and A. Cameron.**—The Alkylation of Galactose. *Vac.*
- A Contribution to the Study of Alkylated Glucosides. June 1.
- Jackson, H., and D. Northall-Laurie.**—The Action of Carbon Monoxide on Ammonia. Apr. 6.
- Japp, F. R., and J. Knox.**—Some Derivatives of Anhydracetonebenzil. May 4.
- The Dihydrocyanides of Benzil and Phenanthraquinone. Second notice. May 4.
- Reduction Products of $\alpha\beta$ -dimethylanhydracetonebenzil and Condensation Products of Benzaldehydes with Ketones. May 4.
- and **W. Maitland.**—A Condensation Product of Mandelonitrile. Nov. 3.
- Interaction of Sodium Phenylglycidate with Phenylhydrazine. Nov. 3.
- α -Benzoyl- β -trimethacetylstyrene. Nov. 3.
- and **J. Wood.**—Preliminary Notice of some Condensations of Phenanthraquinone with Ketonic Compounds. Nov. 16.
- Action of Hydrazine on Unsaturated γ -Diketones. May 4.
- Johnston, J.**—Methylation of *p*-aminobenzoic Acid by Means of Methyl Sulphate. Preliminary Note. May 4.
- Jones, D. T., and G. Tattersall.**—A New Synthesis of isocapro lactone and certain Derivatives. Nov. 16.
- Jones, H. O.**—A Further Analogy between the Asymmetric Nitrogen and Carbon Atoms. Jan. 18.
- Jowett, H. A. D.**—Preparation and Properties of 1:4:5-trimethylglyoxaline. Mar. 29.
- Bromomethyl Heptyl Ketone. Mar. 29.
- Jowett, H. A. D.**—The Constitution of Pilocarpine. Part V.—Conversion of isopilocarpine into Pilocarpine. May 17.
- and **C. E. Potter.**—The Constitution of Barbaloin. Part I. June 1.
- Kipping, F. S.**—Organic Derivatives of Silicon. Feb. 15.
- Isomeric Salts of the Type $\text{NR}_2\text{B}_2\text{H}_3$. A Correction. Isomeric Forms of *d*-Bromo- and *d*-Chloro-Camphorsulphonic Acids. Apr. 6.
- Isomerism of α -Bromo- and α -Chloro-Camphor. Apr. 6.
- and **A. E. Hunter.**—*l*-Phenylethylamine. Apr. 6.
- Lander, G. D., and H. E. Laws.**—Amidechlorotrioxides. Nov. 16.
- Lang, W. R., and C. M. Carson.**—The Interaction of Hydrogen Sulphide and Sulphur Dioxide. May 4.
- Lapworth, A.**—Reactions involving the Addition of Hydrogen Cyanide to Carbon Compounds. Part II.—Cyanohydrins regarded as Complex Acids. *Vac.*
- Reactions involving the Addition of Hydrogen Cyanide to Carbon Compounds. Part III.—Action of Potassium Cyanide on Mesityl Oxide. *Vac.*
- Note on the Addition of Hydrogen Cyanide to Unsaturated Compounds. Dec. 1.
- Law, H. D.**—Electrolytic Oxidation of the Aliphatic Aldehydes. Jan. 18.
- Leach, F. P.**—Limonene Nitrosocyanides and their Derivatives. Apr. 6.
- and **H. R. Le Sueur.**— Δ^{α} -Oleic Acid. Nov. 3.
- Lowry, T. M.**—The Design of Gas-Regulators for Thermostats. June 1.
- Lumsden, J. S.**—The Reduction Products of Anisic Acid. Jan. 18.
- The Physical Properties of Heptoic, Hexahydrobenzoic, and Benzoic Acids and their Derivatives. Jan. 18.
- M'Intosh, D.**—The Basic Properties of Oxygen at Low Temperatures: Additive Compounds of the Halogens with Organic Substances containing Oxygen. Feb. 15.
- The Basic Properties of Oxygen at Low Temperatures. Additive Compounds of the Halogens with Organic Substances containing Oxygen. Apr. 6.

CHEMICAL SOCIETY—continued.

- M'Kenzie, A.**—Studies in Asymmetric Synthesis. I.—Reduction of Menthyl Benzoylformate. II.—Action of Magnesium Alkyl Haloids on Menthyl Benzoylformate. *Vac.*
- and **H. B. Thompson.**—Racemisation Phenomena during the Hydrolysis of Optically Active Menthyl and Bornyl Esters by Alkali. June 1.
- Matsubara, K., and W. H. Perkin, jun.**—Experiments on the Synthesis of the Terpenes. Part IV.—Synthesis of Δ^3 -Normenthenol (8), $\Delta^{3,8(9)}$ -Normenthadiene, Normenthanol(8), and $\Delta^{8(9)}$ -Normenthene. Apr. 19.
- Meldola, R., and L. Eynon.**—A Method for the Direct Production of certain Aminoazo-Compounds. Dec. 14.
- and **J. H. Lane.**—The Isomerism of the Amidines of the Naphthalene Series (Fifth Communication on Anhydro-Bases). Nov. 16.
- Note on β -NH-Ethenyl-diaminonaphthalene. Jan. 25.
- Mellor, J. W.**—The Union of Hydrogen and Chlorine. Rate of Decay of the Activity of Gaseous Chlorine. Nov. 3.
- Morgan, G. T., and A. Clayton.**—Influence of Substitution on the Formation of Diazoamines and Aminoazo-Compounds. Part IV.—5-Bromo-*as*(4)-Dimethyl-2 : 4-Diaminotoluene. June 1.
- and **F. M. G. Micklethwait.**—6-Aminocoumarin. *Vac.*
- The Diazo-Derivatives of the Benzenesulphonylphenylenediamines. Jan. 18.
- Diazo-Derivatives of Monoacylated Aromatic Para-Diamines. June 1.
- and **W. O. Wootton.**—Influence of Substitution on the Formation of Diazoamines and Aminoazo-Compounds. Part III.—Azo-Derivatives of the Symmetrically Disubstituted Primary Metadiamines. June 1.
- Morrell, R. S., and A. E. Bellars.**—Action of Hydrogen Peroxide on Carbohydrates in the Presence of Ferrous Sulphate. Part V. Mar. 2.
- and **E. K. Hanson.**—Studies on the Dynamic Isomerism of α - and β -Crotonic Acids. Part I. Nov. 3.
- Mouilpied, A. T. de.**—The Condensation of Anilindiacetic Esters in Presence of Sodium Ethoxide. Feb. 15.
- Nance, R. T.**—The Existence of a Carbide of Magnesium. Apr. 6.
- Orton, K. J. P.**—Transformations of Derivatives of *s*-Tribromodiazobenzene. Jan. 18.
- **J. E. Coates, and F. Burdett.**—The Influence of Light on Diazo-reactions. Preliminary Notice. May 17.
- and **A. E. Smith.**—The Transformations of Highly Substituted Nitroamino-benzenes. Mar. 15.
- Patterson, T. S.**—The Influence of Solvents on the Rotation of Optically Active Compounds. Part VIII.—Ethyl Tartrate in Chloroform. Mar. 2.
- and **F. Taylor.**—Studies in Optical Superposition. Part I. Dec. 14.
- The Influence of Solvents on the Rotation of Optically Active Compounds. Part VII.—Solution-volume and Rotation of Menthol and Menthyl Tartrates. Jan. 18.
- Perkin, A. G.**—Catechin and Acacatechin. Supplementary Note. Mar. 15.
- The Formula of Cyanomaclurin. May 14.
- **Purpurogallin.** June 14.
- and **M. Nierenstein.**—Some Oxidation Products of the Hydroxybenzoic Acids and the Constitution of Ellagic Acid. June 1.
- and **F. M. Perkin.**—The Electrolytic Oxidation of Hydroxybenzoic Acids. June 14.
- Perkin, W. H., jun.**—The Action of Ethyl Dibromopropanetetracarboxylate on the Disodium Derivative of Ethyl Propanetetracarboxylate. A Correction. Mar. 15.
- and **S. S. Pickles.**—The Reduction of isophthalic Acid. Mar. 2.
- Experiments on the Synthesis of the Terpenes. Part II.—Synthesis of Δ^3 -*p*-Menthenol (8), $\Delta^{3,8(9)}$ -*p*-Menthadiene, *p*-Menthanol(8), $\Delta^{8(9)}$ -*p*-Menthene, and *p*-Menthane. Apr. 19.
- Experiments on the Synthesis of the Terpenes. Part III.—Synthesis of Aliphatic Compounds similar in Constitution to Terpineol and Dipentene. Apr. 19.

CHEMICAL SOCIETY—continued.

- Perkin, W. H., jun., and J. L. Simonsen.*—The Replacement of Hydroxyl by Bromine. June 1.
- and *G. Tattersall.*—Glutaconic Acid and the Conversion of Glutaric Acid into Trimethylene-dicarboxylic Acid. Mar. 15.
- Perman, E. P.*—The Determination of Molecular Weight by Lowering of Vapour-Pressure. Jan. 25.
- Philip, J. C.*—Influence of Various Sodium Salts on the Solubility of Sparingly Soluble Acids. June 14.
- and *D. Haynes.*—The Dielectric Constants of Phenols and their Ethers Dissolved in Benzene and *m*-Xylene. June 14.
- Pickles, S. S., and C. Weizmann.*—The Effect of Anhydrides on Organo-Magnesium Bromides. Part I.—The Action of Phthalic Anhydride on Magnesium- α -Naphthyl Bromide. Nov. 3.
- — The Halogen Derivatives of Naphthacenequinone. Nov. 16.
- Pollok, J. H.*—The Composition of Beryl. Vac.
- Pope, W. J., and G. Clarke, jun.*—The Resolution of Externally Compensated Dihydro- α -Methylindole. Vac.
- Power, F. B., and M. Barrowcliff.*—The Constituents of the Seeds of *Hydnocarpus Wightiana* and of *Hydnocarpus anthelmintica*. Isolation of a Homologue of Chaulmoogric Acid. June 1.
- — The Constituents of the Seeds of *Gynocardia odorata*. June 1.
- and *F. H. Lees.*—Gynocardin: a New Cyanogenetic Glucoside. Mar. 15.
- and *F. Tutin.*—The Relation between Natural and Synthetical Glyceryl-phosphoric Acids. Mar. 2.
- Prentice, B.*—The Constitution of Pyrazolidone Derivatives: β -Phenylazoisovaleric Acid and β -Phenylhydrazidobutyric Acid. Nov. 16.
- Price, T. S., and J. A. N. Friend.*—The Effect of Colloidal Platinum on Mixtures of Caro's Persulphuric Acid with Hydrogen Peroxide. Vac.
- Proctor, C.*—The Estimation of Saccharin. Feb. 15.
- Purdie, T., and J. C. Irvine.*—The Stereoisomeric Tetramethyl *m*-thyl-glucosides and Tetramethyl Glucose. Vac.
- Rdy, P. C.*—Theory of the Production of Mercurous Nitrite and of its Conversion into Various Mercury Nitrates. Nov. 16.
- The Nitrites of the Alkali Metals and Metals of the Alkaline Earths and their Decomposition by Heat. Dec. 1.
- The Sulphate and the Phosphate of the Dimercurammonium Series. Dec. 14.
- Robertson, P. W.*—Studies on Comparative Cryoscopy. Part II.—The Aromatic Acids in Phenol Solution. Nov. 16.
- Robertson, W.*—Solubility as a Measure of the Change Undergone by Isodynamic Hydrazones. (1) Camphorquinonephenylhydrazone, (2) Acetaldehydephenylhydrazone. June 1.
- Rosenheim, O.*—The Methylation of Gallotannic Acid. May 4.
- Ruhemann, S.*—Olefinic Ketonic Compounds. Nov. 3.
- The Combination of Mercaptans with Olefinic Ketonic Compounds. Dec. 14.
- The Combination of Mercaptans with Unsaturated Ketonic Compounds. Apr. 6.
- and *E. R. Watson.*—The Action of Organic Bases on Olefinic Ketonic Compounds. Vac.
- Sell, W. J.*—The Chlorination of Methyl Derivatives of Pyridine. Part I.—2-Methylpyridine. May 17.
- Senier, A., and P. C. Austin.*—Halides of the Acridines and Naphthacridines. Vac.
- Sheppard, S. E., and C. E. K. Mees.*—The Molecular Condition in Solution of Ferrous Potassium Oxalate. Jan. 18.
- Sidgwick, N. V.*—Note on the Interaction of Metallic Cyanides and Organic Halides. Apr. 6.
- Silberrad, O.*—The Constitution of Nitrogen Iodide. Nov. 3.
- The Metallic Derivatives of Nitrogen Iodide and their Bearing on its Constitution. Dec. 1.
- Slator, A.*—The Chemical Dynamics of the Reactions between Sodium Thiosulphate and Organic Halogen Compounds. Part I.—Alkyl Haloids. Vac.
- The Decomposition of Ethylene Iodide under the Influence of the Iodide Ion. Nov. 16.

CHEMICAL SOCIETY—continued.

- Slator, A.*—The Chemical Dynamics of the Reactions between Sodium Thiosulphate and Organic Halogen Compounds. Part II.—Halogen Substituted Acetates. Apr. 6.
- Smiles, S.*—An Asymmetric Synthesis of Quadrivalent Sulphur. Mar. 15.
- The Action of α -Halogen Ketones on Alkyl Sulphides. Mar. 15.
- Sonstadt, E.*—The Attractive Force of Crystals for like Molecules in Saturated Solutions. Dec. 1.
- Stewart, A. W.*—The Addition of Sodium Hydrogen Sulphite to Ketonic Compounds. Jan. 18.
- A Further Note on the Addition of Sodium Hydrogen Sulphite to Ketonic Compounds. Mar. 2.
- The Transmutation of Geometrical Isomerides. Mar. 2.
- The Velocity of Oxime Formation in certain Ketones. Mar. 15.
- Sudborough, J. J., and T. H. Davies.*—Diortho-Substituted Benzoic Acid. Part VI.—Conversion of Methyl into Ethyl Esters. Mar. 15.
- and *T. C. James.*— α -Chlorocinnamic Acids. Mar. 15.
- and *D. J. Roberts.*—Esterification Constants of Substituted Acrylic Acids. Mar. 15.
- and *W. Thomas.*—Simple Method for the Estimation of Acetyl Groups. Mar. 15.
- Thorpe, T. E.*—The Analysis of Samples of Milk Referred to the Government Laboratory in Connection with the Sale of Food and Drugs Acts. Feb. 15.
- Tilden, W. A., and H. Burrows.*—Pinene isonitrosocyanide and its Derivatives. Mar. 15.
- Tilden, W. A., and J. A. Stokes.*—The Action of Magnesium Methyl Iodide on Pinene Nitroschloride. June 1.
- Titherley, A. W.*—The Acylation of Amides. Vac.
- Tutton, A. E. H.*—The Relation of Ammonium to the Alkali Metals. A Study of Ammonium Magnesium and Ammonium Zinc Sulphates and Selenates. June 1.
- Veley, V. H.*—Hydrolysis of Ammonium Salts. Dec. 14.
- Wadmore, J. M.*—Notes on Sodium Alum. May 4.
- Walker, J., and J. Johnston.*—Tetramethylammonium Hydroxide. June 14.
- and *A. P. Walker.*—Tetraphenylsuccinic Acid. June 14.
- Watson, E. R.*—Acetylenic Ketones. Vac.
- Werner, E. A.*—The Decomposition of Chloral Hydrate by Sodium Hydroxide and by certain Salts. Vac.
- Researches on Chromorganic Acids: the Behaviour of Chromic Hydroxide towards Oxalic Acid and certain other Organic Acids. Vac.
- The Condensation of Formaldehyde with Acetone. A Preliminary Note. Nov. 3.
- Willcock, Miss E. G.*—Note on the Influence of certain Salts and Organic Substances on the Oxidation of Guaiacum. Nov. 3.
- Worley, F. P.*—Bromine in Solutions of Potassium Bromide. June 14.
- Young, G.*—C-Phenyl-s-triazole. Apr. 19.

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND,

30 BLOOMSBURY SQUARE, W.C.

(FOUNDED 1877; INCORPORATED BY ROYAL CHARTER 1885.)

Officers.—*President:* David Howard. *Registrar and Secretary:* Richard B. Pilcher.

Meetings.—The Annual General Meeting for 1906 will be held on March 1st. Occasional meetings are held to discuss questions of professional interest to Analytical and Consulting Chemists.

Objects.—Under the provisions of the Royal Charter, the Institute was incorporated to promote the better education of persons desirous of becoming Public and Technical Analysts and Chemical Advisers on scientific subjects; to examine Candidates, and to grant certificates of competency; to elevate the profession of Consulting and Analytical Chemistry by setting up a high standard of scientific and practical proficiency, and by insisting on the observance of strict rules in regard to professional conduct.

No person can become an Associate of the Institute until he has attained the age of 21 years.

There are three Examinations for admission to the grade of Associate, viz.:—

- I. The Preliminary Examination in Subjects of General Education.
- II. The Intermediate Examination in General Theoretical and Practical Chemistry, to be passed after having systematically studied Theoretical and Analytical Chemistry, Theoretical and Practical Physics, Elementary Mathematics, and one other allied science for at least three years in a recognised Institution.
- III. The Final Examination in a Branch of Chemistry selected by the Candidate.

In order to become eligible for the Fellowship an Associate is required to have been continuously engaged for a further term of three years in the study and practical work of applied Chemistry in a manner satisfactory to the Council.

Any Fellow of the Institute may use after his name the initials F.I.C., and any Associate of the Institute the initials A.I.C.

The **Examinations** are held in the Laboratories of the Institute at 30 Bloomsbury Square in January, April, and July, except Examinations in Biological Chemistry, which are held in October.

The **Annual Subscription** for Fellows and Associates is One Guinea, and for Students, Five Shillings. The Entrance Fee to the Fellowship is Five Guineas. Life Composition Fee, Twenty Guineas.

Publications issued to Members from July 1904 to June 1905.—*Book of Regulations*, 1904, price 1s. (August). *Proceedings*, 1904, Part III. (November). *List of Public Analysts, etc.*, price 1s. (November). *Proceedings*, 1905, Part I. (February); Part II. (April). *Register of Fellows, Associates, and Students*, 1905 (April).

The Book of Regulations for Admission to the Membership can be obtained from Messrs Blundell, Taylor & Co., 173 Upper Thames Street, E.C. Price 1s. post free.

SOCIETY OF CHEMICAL INDUSTRY,

PALACE CHAMBERS, 9 BRIDGE STREET, WESTMINSTER, S.W.

(FOUNDED 1881.)

Officers.—*President*: Dr Edw. Divers, F.R.S. *Hon. Treasurer*: Samuel Hall. *Hon. Foreign Secretary*: Dr Ludwig Mond, F.R.S. *General Secretary*: Charles G. Cresswell. *Editor*: Watson Smith.

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Sectional Local Secretaries: *Birmingham*—F. R. O'Shaughnessy, Tyburn, near Birmingham. *Canada*—Alf. Burton, 114 Bedford Road, Toronto. *Liverpool*—W. R. Hardwick, 13 Batavia Buildings, Hackins Hey. *London*—Julian L. Baker, 7 Addison Road, Bedford Park, W. *Manchester*—J. Hübner, Ash Villa, Cheadle Hulme. *Newcastle*—F. C. Garrett, Durham College of Science. *New England*, W. H. Walker, 93 Broad Street, Boston, Mass. *New York*—Dr H. Schweitzer, 40 Stone Street. *Nottingham*—S. R. Trotman, King's Walk Chambers, Parliament Street. *Scotland*—Dr T. Gray, c/o Gourlay & Deas, 180 Hope Street, Glasgow. *Sydney (N.S.W.)*—T. U. Walton, Colonial Sugar Refining Co., O'Connell Street. *Yorkshire*—T. Fairley, 17 East Parade, Leeds.

Meetings.—The Annual General Meeting (1905) was held in London on July 10th. The 1906 Meeting will be held in Manchester. Sectional Meetings are held during Winter and Spring.

Membership.—About 4500. Entrance Fee, One Guinea; Annual Subscription, 25s.

Local Sections.—There are now twelve of these in operation, viz., in Birmingham, Canada, Liverpool, London, Manchester, Newcastle-on-Tyne, New England, U.S.A., New York, U.S.A., Nottingham, Scotland, Sydney, N.S.W., and Yorkshire. The Scottish Section holds meetings at both Glasgow and Edinburgh.

Publications.—The *Journal*, twice a month, issued free to Members, and to Subscribers for 36s. per annum. Single numbers, 1s. 9d. each to Members and Subscribers only, by application to the General Secretary.

Papers read before Sections of Society, Session 1904–1905.

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| <i>Armstrong, Dr H. E.</i> , F.R.S.—The Mechanics of Fire. May 15. L. | for Controlling the Admission of Steam to Vitriol Chambers. May 15. M. |
| <i>Atwater, C. G.</i> —Coke Oven Gas. June 15. N.Y. | <i>Davis, B.</i> , and <i>C. W. Edwards</i> .—Chemical Combination of Oxygen and Hydrogen under Action of Radium Rays. Mar. 31. N.Y. |
| <i>Ball, S. F.</i> —Commercial Fusel Oil. Jan. 16. N.Y. | <i>Divers, Dr E.</i> , F.R.S.—Raschig's Theory of the Lead Chamber Process. Dec. 31. L. |
| <i>Baty, E. J.</i> —Methods of Temperature Indication. Apr. 15. Ll. | —Theory of the Action of Metals upon Nitric Acid. Dec. 31. L. |
| <i>Brownsdon, Dr H. W.</i> —The Proof of Percussion Caps. Apr. 29. L. | <i>Divine, R. E.</i> —Use of Tannic Acid in Determining Alumina. Jan. 16. N.Y. |
| <i>Burford, S. F.</i> —Commercial Amyl Alcohol. Apr. 29. Nm. | <i>Dreaper, W. P.</i> —Theory of Dyeing. Part II.—Pseudo-Solution and De-Solution. Mar. 15. L. |
| <i>Carey, E.</i> —Chemical Industries of the United States. Jan. 16. Ll. | <i>Dunn, Dr J. T.</i> —The Fusion of Refractory Materials. Dec. 15. No. |
| —Firing with Coal Dust. Apr. 29. Ll. | <i>Ford, J. S.</i> , and <i>J. M. Guthrie</i> .—The Identity of the Hydrolytic Products of Starches of Various Origins. June 15. S. |
| <i>Carpenter, R. F.</i> , and <i>S. E. Linder</i> .—Studies on the Claus Kiln Reaction. Part III. Jan. 31. Ll. | <i>Fowler, Dr G. J.</i> , and <i>E. Ardern</i> .—Suspended Matter in Sewage and Effluents. May 15. M. |
| <i>Carulla, F. J. R.</i> —Tanks for Carrying Tar and Gas Liquor by Rail. Feb. 28. Nm. | <i>Frasch, H. A.</i> —A New Caustic Soda Process. Jan. 16. N.Y. |
| <i>Case, W. L.</i> —Generation of Producer-Mond-, and Blast Furnace-Gases. June 15. N.Y. | |
| <i>Clafin, A. A.</i> —Quick Process Tanning of Sole Leather. Apr. 29. N.Y. | |
| <i>Cobb, J. W.</i> —Natural and Induced Draught. May 31. Y. | |
| <i>Coleman, W. H.</i> —Regulating Valve | |

- Gardner, W. M., and Dr L. L. Lloyd.*—Notes on Water Softening. Apr. 29. Y.
- Gerard, T. A.*—Composition of Scouring Soaps. May 15. Nm.
- Gray, Dr T.*—High Temperature Measurements (with Demonstration of Pyrometers). Dec. 31. S.
- and *Dr J. G. Robertson.*—Comparison of Different Types of Calorimeter. July 15. S.
- Griffin, M. L.*—Standard Methods of Sampling. Feb. 28. N.Y.
- Grossmann, Dr J.*—Improved Method of Indigo Testing. Apr. 15. M.
- Recovery of Products from Sewage Sludge. June 30. M.
- Hake, C. N., and R. J. Lewis.*—Formation of Sulphuric Esters in the Nitration of Cellulose, and their Influence on Stability. Apr. 29. L.
- Hutton, R. S.*—Recent Advances in the Electro-metallurgy of Iron and Steel. June 15. M.
- Ingle, Dr H.*—Examination of Linoleum and the Composition of Cork. Dec. 31. S.
- Kilmer, F. B.*—Preparation of Cotton Fibre for Surgical Purposes. Oct. 31. N.Y.
- Lamb, M. C.*—Mineral Constituents of Sumach and its Adulterants. Feb. 28. Nm.
- Lane, N. J.*—Constants of Persimmon Seed Oil. Apr. 29. N.Y.
- Constants of Coconut Oil. Nov. 15. N.Y.
- Langmuir, A. C.*—Determination of Rosin in Shellac. Jan. 16. N.Y.
- Leather, Dr J. W.*—Determination of Small Quantities of Iron. Apr. 29. L.
- Lester, J. H.*—Moisture Tests of Wood-Pulp. Part II. Feb. 28. M.
- Lieber, H.*—Improved Methods of Applying Radium. Mar. 15. N.Y.
- Lovibond, J. W.*—The Fading of Inks and Pigments. Mar. 31. L.
- Lowe, W. F.*—The Accuracy of the Dry Assay of Galena in an Iron Crucible. Jan. 16. M.
- MacArthur, J. S.*—Gold Extraction by Cyanide: a Retrospect. Apr. 15. S.
- M'Gowan, Dr G., and R. B. Floris.*—Estimation of Arsenic in Fuels: a Shortened Method. Mar. 31. L.
- Mardick, J. R.*—Present Methods of Tanning Analysis, and their Influence on the Manufacture of Leather. Dec. 31. N.Y.
- Matthews, Dr J. M.*—Effect of Alkaline Scouring Agents on the Strength of Woollen Yarns. June 30. N.Y.
- Moore, R. W.*—Chemistry in Customs Administration. Nov. 15. N.Y.
- Analyses of Senna. May 15. N.Y.
- Morgan, Dr G. T., and F. E. Richards.*—Azo Colouring Matters derived from *Ar*-Tetrahydro- α -naphthylamine. June 30. L.
- Moulton, J. F., F. R. S.*—Trend of Invention in Chemical Industry. Nov. 30. L.
- Muspratt, M.*—The Wood Distillation Industry. May 15. Ll.
- Nagel, Dr O.*—Utilisation of Gas from Suction-Producers. June 15. N.Y.
- Neil, J. M.*—Recovery of Tin Scrap. Feb. 15. C.
- North, B., and W. Blakey.*—Preparation of Standard Solutions of Sulphuric Acid. Apr. 29. Y.
- Otsuki, Dr C.*—Action of Hydrogen Peroxide on a Photographic Plate in the Dark. June 15. L.
- Influence of the Length of Time of Development on the Degree of Darkening of the Photographic Plate. June 15. L.
- Pattinson, Dr H. S.*—Determination of Sulphur in Pyrites by Lunge's Method. Jan. 16. Nc.
- and *G. C. Redpath.*—Methods for Separating and Determining Zinc in Blendes and other Natural and Artificial Products. Mar. 15. Nc.
- Pattinson, J., and Dr J. T. Dunn.*—Sources of Error in Sulphur Determination. Jan. 16. Nc.
- Pennock, Dr J. D.*—The Mond Producer. June 15. N.Y.
- Priestman, H.*—Microscopical Examination of Sumach Adulterants. Mar. 15. Y.
- Procter, Prof. H. R.*—The University and Technology. Nov. 30. Y.
- Reid, W. F.*—Some Chemical Aspects of the St Louis Exhibition. Jan. 31. L.
- Richardson, C., and C. N. Forrest.*—Carbon Tetrachloride, and its Use as a Solvent for Differentiating Bitumens. Apr. 15. N.Y.
- Richardson, F. W., and H. N. Hanson.*—The Valuation of Lubricants, with Special Reference to Cylinder Oils. Apr. 15. Y.
- and *A. Jaffé.*—Olive Oils and the Free Oleic Acid Question in Wool-combing. May 31. Y.

- Rowland, J. S., and L. J. Davies.*—Method for the Determination of Phosphorus in Iron Ores. Dec. 31. L.
- Schaak, Dr M. F.*—Method for the Rapid Estimation of Boric Acid. July 15. N.Y.
- Schidrowitz, Dr P.*—Standards of Purity for Fermented and Distilled Liquors. Feb. 28. N.Y.
- and *F. Kaye.*—The Chemistry of Whisky. Part II. June 15. L.
- Schwitzer, M.*—Tin in Alaska. June 30. N.Y.
- Smith, Dr R. G.*—Bacterial Origin of Vegetable Gums. Part II. Oct. 31. Sy.
- Sodeau, W. H.*—Some Temperature Regulators. Dec. 15. Nc.
- Spielmann, P. E.*—Analysis of Silicon (Graphitic) and Siloxicon. June 30. L.
- Steel, T.*—The Temperature of Solutions Heated by Open Steam. June 15. Sy.
- Tatlock, R. R., and R. T. Thomson.*—Determination of Small Proportions of Bromine and Chlorine in Iodine. Feb. 28. S.
- Thompson, G. W.*—Determination of Acetic Acid in White Lead. May 15. N.Y.
- Toch, M.*—New Paint Conditions Existing in the New York Subway. May 31. N.Y.
- Trotman, S. R.*—Mineral Constituents of Sumac. Dec. 15. Nm.
- Damage Caused by Magnesia Soaps in Bleaching. Mar. 31. Nm.
- and *J. E. Hackford.*—Electrical Heater for Laboratories. Dec. 15. Nm.
- Differentiation of the Different Types of Nitrogen in Glue. Nov. 30. Nm.
- Ward, G. J., and A. H. Longden.*—Effect of Sulphur on Siliceous Pig Iron. Feb. 28. Nm.
- Watson, H. J.*—Notes on Glue and Glue Testing. Dec. 31. Nm.
- Webster, C. S.*—Luminescope for Comparing Substances under the Influence of Radium Rays. Dec. 31. L.
- White, J.*—Standard Methods of Analysis. Apr. 29. Nm.
- Wood, J. T., and S. R. Trotman.*—Note on Collin. Nov. 30. Nm.
- Worden, E. C., and J. Motion.*—Preparation of Volumetric Solutions. Feb. 28. N.Y.

SOCIETY OF PUBLIC ANALYSTS,

MEETING AT THE CHEMICAL SOCIETY'S ROOMS,
BURLINGTON HOUSE.

Officers.—*President:* E. J. Bevan. *Secretaries:* A. C. Chapman, 8 Duke Street, Aldgate, E.C.; P. A. E. Richards, Charing Cross Hospital, W.

Meetings.—First Wednesday in each month, from October to June. The Anniversary Meeting usually takes place during February.

Membership.—Entrance Fee, One Guinea; Annual Subscription, One Guinea.

Publication.—*The Analyst* (monthly), free to Members; subscription to Non-Members, 10s. 6d. per annum.

Papers read during Session 1904–1905.

- Baker, J. L., and W. D. Dick.*—The Detection and Estimation of Small Quantities of Maltose in the Presence of Dextrose. Nov. 2.
- Blount, B.*—Electric Furnaces for Laboratory Use. Dec. 7.
- Bodmer, R.*—Note on an Objectionable Method of Fining Wines. May 3.
- Chapman, A. C.*—The Use of Palladium-Hydrogen as a Reducing Agent in Quantitative Analysis. Nov. 2.
- Clayton, E. G.*—Notes on Preservatives. May 3.
- Cribb, C. H., and F. W. F. Arnaud.*—The Action of Slightly Alkaline Waters on Iron. Apr. 5.

- Dickson, S.*—The Estimation of Oxygen in Copper. Mar. 1.
- Dupré, P. V.*—Ammonium Oxalate: its Formula and Stability. June 7.
- Fairley, T.*—Notes on the History of Distilled Liquors, especially Whisky and Brandy (with Lantern Illustrations). May 3.
- Harry, F. T., and W. R. Mummery.*—The Colorimetric Estimation of Salicylic Acid in Food Stuffs. Feb. 1.
- Harvey, S.*—Some Recent Abnormal Milk Results. Dec. 7.
- Hehner, O.*—"Brandy." Jan. 11.
- Howard, D. L.*—The Separation of Strychnine and Brucine. June 7.
- Ling, A. R., and T. Rendle.*—The Volumetric Estimation of Reducing Sugars. Feb. 1.
- Richmond, H. D.*—The Composition and Analysis of Milk. June 7.
- Schidrowitz, P., and F. Kaye.*—Some Conditions affecting the Ether Value of Brandies. Mar. 1.
- — — The Determination of Higher Alcohols in Spirits. Apr. 5.
- Watts, Hon. F.*—The Inversion of Cane Sugar in the Presence of Milk Constituents. Feb. 1.
- Wilson, A. C.*—A Simple and Convenient Camera for Photo-micrographic Work. June 7.
- — — Notes on some Abnormal Milks from Cleveland and South East Durham. June 7.

THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN,

17 BLOOMSBURY SQUARE, W.C. (FOUNDED 1841.)

Officers.—*President:* R. A. Robinson, J.P. *Secretary:* Richard Bremridge, 17 Bloomsbury Square, W.C.

Meetings.—Ordinary Meetings on the second Tuesday in each month, November to April, at 8 P.M. The Annual General Meeting takes place on the third Wednesday in May.

Membership.—Entrance by examination only. Annual Subscription: Members, One Guinea.

Publications during 1904-1905.—*Pharmaceutical Journal* (weekly), 6d.; *Calendar*, 2s.; *Official Register of Pharmaceutical Chemists and Chemists and Druggists*, 5s. (Annual).

Papers read during Session 1904-1905, and published in the "Pharmaceutical Journal" (72 Great Russell Street, W.C.).

- Drabble, E., D.Sc., and F. A. U. Smith.*—The Botanical Source of Derbyshire Valerian.
- Farr, E. H., and R. Wright.*—Extract of Belladonna Leaves.
- — — Powdered Alcoholic Extract of Belladonna Root.
- Gardner, H. C. T.*—The Displacement of Water in the Preparation of certain Tinctures.
- Glyn-Jones, W. S.*—A Comparison of the Methods in the U.S. and in England, to Secure the Purity of Foods and Drugs.
- Greenish, Prof. H. G., F.L.S.*—Official Processes for Galenical Preparations.
- Hewlett, Prof. R. T., M.D.*—Antitoxins.
- Hills, J. S.*—An Investigation on *Linum Catharticum*.
- Holmes, E. M., F.L.S.*—Notes on some Recent Additions to the Museum.
- Wright, R.*—The Occurrence and Distribution of a Mydriatic Alkaloid in *Lactuca muralis*.

RÖNTGEN SOCIETY,

20 HANOVER SQUARE, W.

Officers.—*President* : * * * *Hon. Secretary* : F. H. Low,
M.B., 2 Henrietta Street, Cavendish Square, W.

Meetings.—*Ordinary Meetings* are held on the first Thursday in each month, November to July inclusive, at 8 P.M. The Anniversary Meeting is held in July.

Membership.—*Annual Subscription*, One Guinea. Ladies are admitted.

Publication.—*Journal of the Röntgen Society*, published four times during Session, 4s. to Non-Members.

THE ROYAL PHOTOGRAPHIC SOCIETY OF
GREAT BRITAIN,

66 RUSSELL SQUARE, W.C. (INSTITUTED 1853.)

Officers.—*President* : Maj.-Gen. J. Waterhouse, I.A. *Secretary* : J. M'Intosh,
66 Russell Square.

Meetings.—*Ordinary* on the second Tuesday in each month, from October to June inclusive, at 8 P.M. Demonstrations, lantern and technical Meetings on the first, third, and fourth Tuesdays. The Anniversary Meeting is on the second Tuesday in February.

Membership.—*Entrance Fee*, One Guinea; *Annual Subscription* : Fellows, Two Guineas; Members, One Guinea. *Life Composition* : Fellows, £20; Members, £10, 10s.

Papers read during Session 1904–1905, and, excepting those read in May, published in "The Photographic Journal," monthly, 1s. (Harrison & Sons).

Aarland, Dr G.—Three-colour Photography. Apr. 11.

Abney, Sir W.—Presidential Address—The Proposed Photographic Laboratory and its Work. Dec. 13.

Acland, Miss.—A Visit to Gibraltar, Demonstrating the Use of Three-colour Photography in giving a more Faithful Impression of a Place than can be otherwise Obtained. June 6.

Baker, T. T.—Spectroscopic Photography in Colour. Jan. 10.

Barrett, R.—Retouching and Improving the Negative. May 2.

Bennett, H. W.—The Negative in Architectural Photography. Feb. 7.

Bull, E. R.—Notes on and Experiences in Architectural Photography. Apr. 18.

Buller, E. T.—Three-colour Photography, with Examples. May 9.

Chalmers, S. D.—Some Results of Lens Testing. Mar. 14.

Cook, J. W.—Five Days in the Walloon Country. Mar. 21.

Cornish, V.—Waves in Water, Sand and Snow. Jan. 17.

Ferguson, W. B., and B. F. Howard.—Control of the Development Factor at Various Temperatures. Feb. 28.

Field, A. G.—The Negative in Portraiture. Apr. 4.

Gamble, W.—Cameras and other Apparatus for Three-colour Work. Mar. 28.

Glazebrook, R. T.—Modern Physics in Relation to Photographic Optics. (The Seventh Trail Taylor Memorial Lecture.) Dec. 15.

Holland, Dr T.—Röntgen Rays in Medical Work. May 23.

Johnson, G. L.—The History of Daguerre: the Story of his Invention. (Communicated.) Mar. 15.

- Levy, M.* — Half-tone Screens. Dec. 20.
M'Intosh, J. — Intensification and Reduction of the Negative. Mar. 7.
Marriage, E. — The Sculptures of Chartres Cathedral. Nov. 15.
Maunder, E. W. — Recent Astronomical Photography at the Yerkes Observatory. Nov. 8.
Mess, C. E. K., and S. E. Sheppard. — The Sensitometry of Photographic Plates. Oct. 11.
 — Notes on the Chemical Dynamics of Development. An Abstract. June 13.
Mortimer, F. J. — Marine Photography. May 16.
Newton, A. J., and A. J. Bull. — Orthochromatic Plates and Sensitisers and a Note on Dark Room Light Filters. Dec. 13.
Piper, E. W. H. — An Idyllic Minster of the West Country. Feb. 21.
Player, J. H. — Phosphorescent Printing. Oct. 25.
Taylor, W. — Some Problems in Shutter Design. Jan. 24.
Thomas, W. — The Negative in Landscape Photography. Nov. 1.
Tilney, F. C. — The Romantic in Landscape. June 27.
Waterhouse, Maj.-Gen. J. — Dr Paul Rudolph: an Account of his Work. Feb. 14.
Watkins, A. — Calculating Pinhole Exposures. Apr. 11.
Wood, Prof. R. W. — The Diffraction Process of Colour Photography, with Examples shown by T. E. Freshwater. Oct. 25.
Zander, C. G. — Trichromatic Printing Inks. Nov. 22.

OTHER PHOTOGRAPHIC SOCIETIES.

| Name of Society. | President. | Secretary. | Secretary's Address. |
|---|--------------------------|------------------|--|
| LONDON— | | | |
| Affiliation of Photographic Societies, | The Earl of Crawford. | ... | 66 Russell Square, W.C. |
| Aldershot and District Camera Club, | A. H. Smith. | D. Morrison. | Feldberg, St Georges Road. |
| Amateur Photographic Association, | H.R.H. Prince of Wales. | E. H. Hobbs. | 59 Brompton Road, S.W. |
| Amateur Photo. Field Club, . . . | E. R. Ashton. | B. E. Lawrence. | 12 Strathray Gardens, S. Hampstead, N.W. |
| Architectural Assoc. Camera and Cycling Club, | F. R. Taylor. | G. H. Lovegrove. | 18 Foxgrove Road, Beckenham. |
| Borough Polytechnic Photo. Society, | F. W. Gregg. | T. A. Field. | 103 Borough Road, S.E. |
| Bowes Park, etc., Photo. Society, . | W. T. P. Cunninghamham. | A. Kernon. | 26 Goring Road, New Southgate, N. |
| Boys' Own Postal Photo. Club, . . | ... | J. Hardwich. | 7 Belford Terrace, Sunderland. |
| Brentford Photographic Society, . | Rev. T. Eland. | H. Grundy. | North Grove House, Ealing Road. |
| British Postal Camera Club, . . . | ... | S. Oetzmann. | 62 Hampstead Road, N.W. |
| Bromley Camera Club, | J. Scott, M.D. | E. W. Andrew. | 90 College Road. |
| Camera Club, | Sir W. de W. Abney. | M. A. Cromack. | 28 Charing Cross Road, W.C. |
| Central Photographic Society, . . | Rev. F. C. Lambert. | J. Hobday. | Exeter Hall, W.C. |
| Chiswick Camera Club, | G. D. Fowle. | J. Mann. | 9 Cambridge Road. |
| City & Guilds of London Technical College Photographic Society, . . | Prof. R. Meldola, F.R.S. | W. G. Rowse. | 174 Bethnal Green Road. |
| Cricklewood Photo. Society, . . . | J. Stevenson. | L. M. Wilde. | 39 Elm Grove. |
| Cripplegate Photographic Society, . | ... | J. P. Parnham. | 5 Reighton Road, Upper Clapton. |
| Croydon Camera Club, | S. H. Wratten. | H. M. Bennet. | "Alipore," Duppas Hill. |
| Ealing Photographic Society, . . . | J. Watson. | S. Taylor. | 31 Hamilton Road, Ealing. |
| Hackney Photographic Society, . . | Dr R. Smith. | W. Selfe. | 70 Paragon Road, N.E. |
| Ilford and District Photo. Society, . | W. W. Beal. | H. Cole. | 160 Thorold Road. |
| Kenway Photo. Society, | Rev. H. E. Fox. | W. B. C. Cooke. | 16 Salisbury Square, E.C. |
| London and Prov. Photo. Assoc., . | ... | R. J. Kindon. | Burnside, Church Road, Shortland, Kent. |
| National Photographic Record Soc., | Sir J. B. Stone. | G. Scamell. | 21 Avenue Road, Highgate. |
| N. Middlesex Photographic Society, | C. Beadle. | S. C. Puddy. | 87 Crouch Hill, N. |
| North West London Photo. Society, | W. Kilbey. | H. S. Date. | 3A Woodsome Road, Highgate Road. |

OTHER PHOTOGRAPHIC SOCIETIES—*continued.*

| Name of Society. | President. | Secretary. | Secretary's Address. |
|--|----------------------------|-------------------------|---------------------------------------|
| LONDON— | | | |
| Photographic Club, | ... | T. W. Derrington. | 49 Prince's Road, Wimbledon, S.W. |
| Photographic Convention, . . . | Sir W. de W. Abney. | F. A. Bridge. | East Lodge, Dalston Lane, N.E. |
| Photographic Copyright Union, . | F. Bishop. | H. Gower. | 23 Soho Square, W. |
| Polytechnic Photographic Society, . | H. Farmer. | C. E. Crake. | 2A Neiderwald Road, Sydenham. |
| Professional Photographers' Assoc., | T. C. Turner. | W. Grove. | 51 Baker Street, W. |
| Richmond Camera Club, | F. P. Cembrano. | J. A. Abbott. | St Leonard's House, East Sheen. |
| South Essex Camera Club, | W. D. Welford. | E. P. W. Rotherham. | 270 Thorold Road, Ilford. |
| S. London Photographic Society, . | C. F. Dickinson. | H. C. Beckett. | 44 Edith Road, Peckham. |
| South Norwood Photo. Club, . . . | J. Smith. | G. R. Beckett. | 28 Carmichael Road, S. Norwood. |
| Walthamstow Photographic Soc., . | W. A. Longmore. | W. H. Judson. | 31 Merton Road. |
| Wandsworth Camera Club, | ... | E. D. Perrin. | 107 Melody Road. |
| W. London Photographic Society, . | J. Brown. | F. C. Hart. | 37 Willcott Road, Acton Hill, W. |
| W. Surrey Photographic Society, . | Dr H. P. Webb. | C. A. Clear. | 10 Grandison Road, S.W. |
| Wimbledon Camera Club, | P. Keary. | S. Munro. | 96 Richmond Road, S.W. |
| Woodford Photographic Society, . | H. Wilmer. | F. G. Emler. | 2 Florence Villas, Chelmsford Road. |
| Woolwich Photographic Society, . | C. Churchill. | G. W. Tapp. | 79 Durham Road, Plumstead, S.E. |
| COUNTRY— | | | |
| Accrington and District Camera Club, | Dr Clayton. | J. B. Holt. | 79 Church Street, Church, Lancashire. |
| Aintree Photographic Society, . . | W. Lockier. | J. H. Rigby. | Elton, Aintree. |
| Argosy Postal Photo. Club, | ... | Rev. C. F. L. Barnwell. | Stramshall Vicarage, Uttoxeter. |
| Ashton-under-Lyme Photo. Society, | Dr A. Hamilton. | H. Williams. | 127 Welbeck Street. |
| Aston Photographic Society, . . . | H. Baker. | J. C. Taylor. | 201 Albert Road, Aston, Birmingham. |
| Attercliffe Photo. Society, | F. H. Barnsley. | G. Walton. | 57 Ditchingham Road, Sheffield. |
| Aurora Lantern Slide Club, | ... | Rev. T. Perkins. | Turnworth Rectory, Blandford. |
| Banbury, etc., Photographic Soc., . | ... | S. H. Beale. | Caerleon, Banbury. |
| Barnstaple Y.M.C.A. Camera Club, | A. E. Hopper. | W. K. Massey. | 16 Sicklepath. |
| Batley, etc., Photographic Society, . | H. B. Buckley. | W. H. Atkinson. | Cemetery Lodge. |
| Birkenhead Photo. Association, . . | R. J. Russell. | J. T. Peters. | 62 Westbourne Road. |
| Birmingham Photographic Soc., . . | A. J. Leeson. | L. Lloyd. | The Hollies, Church Road, Moseley. |
| Blackburn, etc., Photographic Soc., | W. A. M'Lean. | W. Duxbury. | 7 Queen's Place, Gawthorpe. |
| Blaydon, etc., Camera Club, | A. Payne. | A. B. Cunningham. | Gelt House. |
| Bognor Photographic Society, . . . | Dr F. S. Tidcombe. | C. J. West. | High Street. |
| Bolton Photographic Society, . . . | ... | C. K. Dalton. | 50 Higher Bridge Street. |
| Bootle Photographic Society, . . . | W. R. Brewster. | W. E. Parry. | 31 Browne Street. |
| Border City Camera Club, | Rt. Hon. W. C. Gully, M.P. | G. H. Hill. | 41 Trafalgar Street. |
| Bradford Photographic Society, . . | E. Clough. | H. Akam. | 21 Clarendon Terrace. |
| Braintree, etc., Camera Club, . . . | E. B. Knobel. | W. P. Dreaper. | 81 High Street. |
| Brierley Hill Camera and Field Club, | O. Gibbons. | H. Price. | Dennis Vale, Stourbridge. |
| Brighouse Photographic Society, . . | Dr G. A. Farrer. | F. W. Crowther. | 11 Anvil Street. |
| Bristol, etc., Amateur Photo. Assoc., | H. A. H. Daniel. | G. Chilton. | 34 Baldwin Street. |
| Burnley Camera Club, | F. Heap. | P. Brotherton. | "Express" Office. |
| Burton-on-Trent Y.M.C.A. Photo. Society, | L. Barber. | G. Moore. | 32 Brantstone Road. |
| Bury Athenæum, etc., Photo. Society, | E. W. Mellor. | H. J. Stennitt. | Athenæum, Bury, Lancs. |
| Bury St Edmunds Camera Club . . . | W. G. Patrick. | O. A. Clark. | 12 Abbeygate Street. |
| Cambridge Y.M.C.A. Camera Club, . . | F. W. Bird. | J. Johnson. | 8 St Andrew's Street. |
| Cambridge and District Photo. Club, | F. H. Sanderson. | T. J. Sowdon. | "Sunny Side," Guest Road. |
| Camera & Co., &c., Club, | ... | F. H. Read. | Cliffden Road, Brentford. |
| Cameraists' Postal Photo. Club, . . | ... | A. Turner. | 99 Carr Road, Walkley, Sheffield. |
| Cardiff Photographic Society, . . . | Dr R. Griffiths. | R. C. Harris. | 3 Queen Street Arcade. |
| Cardiff, Windsor, etc., Photo. Society, | F. Fox. | G. Gallon. | 37 Hamilton Street. |
| Cardiff Y.M.C.A. Camera Club, . . . | Dr De Vere Hunt. | J. H. C. Hunt. | 15 Romilly Crescent. |

OTHER PHOTOGRAPHIC SOCIETIES—*continued.*

| Name of Society. | President. | Secretary. | Secretary's Address. |
|--|------------------------|--------------------|--|
| COUNTRY— | | | |
| Caterham Camera Club, | P. Clarke. | J. L. Scrivener. | Mistleigh, Caterham Valley. |
| Cheltenham Amateur Photo. Society, | Gen. F. Dawson. | P. Thomas. | College Pharmacy, Bath Rd. |
| Chichester Photo. Society, | F. B. Tompkins. | G. M. Turnbull. | Lyndhurst Lodge. |
| Chorley Photographic, etc., Club, | H. N. Whittle. | H. R. Dorning. | 8 Pall Mall, Chorley. |
| Cleveland Camera Club, | Col. S. A. Sadler. | F. W. Pearson. | 98 Victoria Road, Middlesbrough. |
| Coatbridge Photographic Assoc., | M. Philip. | G. W. Campbell. | Ailsa Cottage. |
| Colne Camera Club, | H. Hewitt. | R. A. Spivey. | Market Street. |
| Consett, etc., Photographic Society, | J. Petherick. | P. E. Surtees. | Viewdale, Mount Pleasant. |
| Cornish Camera Club, | E. P. Couch. | H. Tonkin. | 22 Market Place, Penzance. |
| Coventry Photographic Club, | H. D. Waters. | W. H. McLauchlan. | 5 Chester Street. |
| Crompton Camera Club, | J. H. Broadbelt. | H. Illingworth. | 22 Haughton Street, Shaw Lane. |
| Darlington Camera Club, | E. D. Walker. | H. L. Thomson. | 9 Close Street. |
| Darwen Photographic Association, | G. Butterworth. | J. G. Thomas. | Fern Cottage, Sough Road. |
| Deal and Walmer Camera Club, | J. N. Mugford. | J. Turk. | 78 College Road, Deal. |
| Derby Photographic Society, | Dr E. C. Green. | A. H. Bennett. | 13 Wilfred Street. |
| Devonport Camera Club, | W. H. Mayne. | A. J. Catford. | 78 Charlotte Street. |
| Doncaster Camera Club, | C. E. Girdlestone. | T. H. Connor. | 39 Market Place. |
| Dukinfield Photographic Society, | J. T. Lees. | H. L. Hadfield. | 107 King Street. |
| Durham City Camera Club, | W. Moul. | C. A. Chapman. | Baliol Ho., Neville's Cross. |
| East Liverpool Photo. Society, | S. M. Crosbie. | A. Ball. | 21 Eastwood Street. |
| Eccles Photographic Society, | D. Lawton. | C. A. Oldham. | 20 Gladstone Road. |
| Erdington Photographic Club, | W. S. Aston. | T. A. Sands. | 26 Frederick Road, Gravely Hill, Birmingham. |
| Erith and District Photo. Society, | A. W. Goodman. | J. B. Major. | 24 Pier Road. |
| Everton Camera Club, | C. W. Childs. | W. Tansley. | 22 Chapel Place, Liverpool. |
| Evesham (Vale of) Camera Club, | O. G. Knapp. | R. C. Mawson. | 3 Victoria Avenue. |
| Exeter Camera Club, | C. R. M. Clapp. | Rev. J. Sparshatt. | St Olave's Rectory. |
| Fakenham, etc., Camera Club, | A. Digby. | H. Newson. | Market Square. |
| Frome, etc., Photographic Society, | E. A. Chill. | B. J. Mitchell. | 3 Willow Vale. |
| Gatehead Camera Club, | W. F. White. | A. G. Greaves. | 21 Cromwell Terrace. |
| Glossop Y.M.C.A. Photo. Society, | Capt. S. H. Wood. | T. W. Sharpe. | 14 Hollincross Lane. |
| Goucestershire Photo. Society, | G. S. Blakeway. | E. A. Ind. | 38 Northgate, Gloucester. |
| Graphic Society, | J. F. Treleven. | J. S. Hawker. | Mutley House, Plymouth. |
| Gravesend, etc., Photographic Society, | B. Bishop. | T. L. Winnett. | 5 The Grove. |
| Gravesend Camera Club, | Sir G. Parker. | G. B. Porter. | 158 Parrock Street. |
| Great Yarmouth, etc., Camera Club, | B. Leach. | T. J. Wigg. | Holland House, N. Quay. |
| Guild (Leeds), | Earl of Ouslow. | R. Stockdale. | 17 Mount Preston, Leeds. |
| Guildford Photographic Society, | J. I. Learoyd. | H. M. Moon. | 82 Hildas, Sydenham Road. |
| Halifax Camera Club, | Dr Speirs. | L. Dickinson. | 113 Athol Mount, Ovenden, Halifax. |
| Haltwhistle, etc., Photo. Assoc., | ... | D. Macadam. | London City and District Bank. |
| Hand Camera Portfolio Club, | P. Whitehouse. | J. Ludlam. | 115 Grasmere St., Leicester. |
| Handsworth Photographic Society, | W. C. Gray. | A. E. Teague. | 51 Linwood Road. |
| Hartlepool Photographic, etc., Soc., | R. White-Ford. | J. J. Rutherford. | 52 Milton Road. |
| Hastings, etc., Photo. Society, | T. Cairns. | F. Judge. | 21A Wellington Place. |
| Heaton Amateur Photographic Soc., | ... | C. Bestham. | 192 Heaton Park Road, Newcastle-on-Tyne. |
| Herefordshire Photo. Society, | J. H. Arkwright. | C. Gethen. | 9 St Nicholas Street. |
| Hillabro, etc., Photo. Society, | Rev. T. Campey. | B. F. Glossop. | Southey Villa, Walkley Bank Road, Sheffield. |
| Holmfirth Photo. Society, | Dr W. Williams. | G. Holdsworth. | Dean Bridge. |
| Hove Camera Club, | J. Colman. | A. R. Sargeant. | 55 The Drive. |
| Hull Photographic Society, | W. S. Parrish. | A. E. Hindson. | 6 Freehold Street. |
| Isle of Man Camera Club, | W. H. Skillicorn. | H. B. Fenton. | Kensington Rd., Douglas. |
| Isle of Thanet Photo. Society, | Rev. L. J. W. Thomson. | L. G. Hodgson. | 58 Queen St., Ramsgate. |
| Isle of Wight Photographic Society, | Prof. J. Milne. | J. H. Burgess. | 53 Pyle Street, Newport. |
| Jersey Photographic Society, | Dr A. C. Stanberg. | R. Porter. | 2 South Villas, Stafford Rd. |
| Keighley, etc., Photo. Association, | F. Mahony. | H. E. Haggos. | 33 Devonshire Street. |
| King's Lynn Photographic Society, | S. A. Gurney. | W. E. Daw. | Hunstanton. |
| Kington-on-Thames, etc., Photo. Society, | Rev. G. T. Swinerton. | J. F. East. | Uxbridge House, Kingston-on-Thames. |
| Lancaster Photographic Society, | J. W. Pickard. | R. T. Simpson. | 21 Cheapside. |
| Lantern Slide Exchange Club, | ... | J. S. Hawker. | Mutley House, Plymouth. |
| Leeds Camera Club, | C. B. Howdill. | F. G. Isott. | 62 Compton Road. |
| Leeds Photographic Society, | G. Middleton. | A. B. Dixon. | 8 Hasle View. |
| Leicester, etc., Photographic Society, | L. Lugh. | W. Murray. | 60 Melton Road. |
| Leigh Photographic Society, | Dr H. S. Hall. | H. W. Coupe. | 69 The Avenue. |
| Light and Truth Postal Photo. Club, | ... | G. H. Haycox. | St Dunstan's Crescent, Worcester. |

OTHER PHOTOGRAPHIC SOCIETIES—*continued.*

| Name of Society. | President. | Secretary. | Secretary's Address. |
|--|----------------------------|------------------------|--|
| COUNTRY— | | | |
| Liverpool Amateur Photo. Assoc., . | F. A. Schlier- water. | A. C. Batty. | Percy Bdg., Eberle Street. |
| Liverpool Central Y.M.C.A. Camera Club, | R. Brown. | J. Graham. | 20 Alfred Road, Birken- head. |
| Longsight, etc., Camera Club, | S. S. Lees. | H. Johnson. | 22 Sullivan Street, East Rd. |
| Longton, etc., Photographic Society, | Dr A. Parkes. | T. Mothershead. | 48 Stafford Street. |
| Louth, etc., Photographic Society, . | Rev. J. E. Standen. | Rev. J. E. Standen. | 4 South Street. |
| Luton Camera Club, | Dr Rose. | M. Barford. | 37 Cardiff Road. |
| Lyonsdown Amateur Photographic Association, | A. Bentley. | F. J. Martin. | Northdene, Station Road, New Barnet. |
| Manchester Amateur Photo. Society, | Rev. H. W. Dick. | F. W. Parrott. | 11 Elm Road, Altrincham. |
| Manchester Photographic Society, . | W. E. Wood. | C. H. Coote. | 10 Holmefield, Sale. |
| Manchester Y. M. C. A. Photo. Club, . | G. T. White. | J. W. Price. | 5 Ash Grove, Victoria Park. |
| Marple, etc., Photo. Society, . | C. J. Atkinson. | C. Taylor. | Oak Lee, Mellor. |
| Mid Cheshire Society of Art, . | T. A. Johnson. | G. Holland. | 17 Stanley Mount, Barnton. |
| Newbury Guildhall Camera Club, . | .. | T. L. Beynon. | Cheriton, Newbury, Bucks. |
| Newcastle, etc., Photo. Association, | J. W. Dyson. | J. H. Harbottle. | 5 Bentinck Crescent. |
| Newton Heath Camera Club, . | A. G. Thistleton. | J. Taylor. | 103 Lightbourne Road, Moston, Manchester. |
| Nottingham Mechanics' Inst. Camera Club, | A. Marshall. | W. Ward. | 14 Stratford Terrace. |
| Oldham Photographic Society, . | J. Whitehead. | W. Taylor. | 176 Coppice Street. |
| Oxford Camera Club, . | Sir W. J. Herschel. | G. W. Norton. | 149 Woodstock Road. |
| Peterbro' Photographic Society, | Dr G. Kirkwood. | T. J. Calcutt. | 46 Narrow Street. |
| Photo. Survey, etc., of Surrey, . | Viscount Mid- dleton. | H. D. Gower. | 55 Benson Road, Croydon. |
| Photo. Survey of Warwickshire, . | Sir J. B. Stone. | Geo. Whitehouse. | 7 Wye Cliff Road, Hands- worth. |
| Plymouth Photographic Society, | F. Johnson. | A. W. Hicks. | 8 Chester Place, Mutley. |
| Plympton Photographic Society, | Dr Aldridge. | T. H. Wilks. | Plympton House. |
| Postal Camera Club, . | ... | W. R. Bland. | Dumfeld, Derby. |
| Postal Photographic Club, . | ... | E. A. R. Bennett. | Walton Manor Lodge, Ox- ford. |
| Pudsey, etc., Photographic Society, | J. W. Golightly. | F. C. Whittam. | School House. |
| Reading, etc., Photo. Society, . | A. Palmer. | C. A. Reading. | Broadlands, Caversham Park. |
| Redcar, etc., Photo. Society, . | J. E. Stead, F.R.S. | C. E. Cowper. | Coatham. |
| Redhill, etc., Photographic Society, | T. P. Padwick. | H. M. Izant. | 12 Park Road. |
| Ripon Portfolio Club, . | ... | H. B. Rudd. | 29 Westgate. |
| Rodley, etc., Photographic Society, | C. Gaunt. | H. Crossley. | Rodley, near Leeds. |
| Rotherham Photographic Society, . | E. I. Hubbard. | H. C. Hemming- way. | Tooker Road. |
| Rugby Photographic Society, . | B. B. Dickenson. | R. H. Myers. | 31 Bridget Street. |
| St Albans Photographic Society, . | R. J. Hillier. | C. H. Ashdown. | Monastery Close. |
| St Matthews (Bootle) Camera Club, | Rev. W. H. Roberts. | H. Tempest. | 78 Thornton Road. |
| Scarborough, etc., Photo. Society, . | T. F. Brogden. | F. Foster. | 16 Victoria Road. |
| Shaw Church Inst. Photo. Society, . | J. R. Heaton. | J. Maiden. | 91 Rochdale Road. |
| Sheffield & Hallamshire Photo. Soc., | F. Mothershaw. | F. Lowe. | 41 Carrington Rd., Sheffield. |
| Sheffield Photographic Society, | G. E. E. Noble. | J. W. Wright. | 62 Vale Road. |
| Shropshire Camera Club, . | H. W. Hughes. | W. D. Haydon. | The Schools. |
| Simpson Memorial Camera Club, . | Dr Lakin. | C. H. Brierley. | 35 Amos Street, Man- chester. |
| Southampton Camera Club, . | W. B. Hill. | S. G. Kimber. | Oakdene, Highfield. |
| South Devon Teachers' Camera Club, | A. W. Searley. | C. Mole. | School House, Broad- hempston, Totnes. |
| Southport Photographic Society, . | J. Lambert. | G. Cross. | 15 Cambridge Arcade. |
| Southsea Photo. Society, . | H. T. Lilley. | F. J. Lawton. | 20 Clarence Sq., Gosport. |
| South Shields Photographic Society, | A. E. Cowling. | R. Brady. | 2 Albion Terrace. |
| Stafford Photographic Society, . | J. Venables. | H. A. E. Hay. | Tillington. |
| Stereoscopic Club, . | ... | W. J. Chadwick. | Star Hotel, Manchester. |
| St Michael's Amateur Photographic Club, | Rev. A. F. Thorn- hill. | H. Winstanley. | 14 St Michael's Road, Liverpool. |
| Stockport Photo. Society, . | Dr Brennan. | J. J. Bothwell. | 76 Didsbury Road. |
| Sun and Company, . | ... | M. J. Harding. | Old Bank House, Church Stretton, Salop. |
| Sunderland Camera Club, . | W. Thackray. | K. S. Yeaman. | 52 Frederick Street. |
| Sunderland Photo. Assoc., . | W. Milburn. | W. E. Kieffer. | 1 Sterling Street. |
| Sutton Photographic Club, . | A. P. Hoole. | C. Thwaites. | Burnell Road. |
| Swadlincote, etc., Photo. Society, . | G. S. Bragge. | F. J. Edwards. | 64 Coppice Side. |
| Talbot Album Club, . | ... | F. H. Davies. | Hampton-in-Arden, War- wickshire. |
| Taunton Photographic Society, . | Rev. W. T. Reader. | C. W. Stamen. | Charlemont, Haines Hill. |

OTHER PHOTOGRAPHIC SOCIETIES—*continued.*

| Name of Society. | President. | Secretary. | Secretary's Address. |
|---|-------------------------|--------------------|--|
| COUNTRY— | | | |
| Thornton Heath Photo. Society, . | W. H. Rogers. | W. Wood. | 45 Beulah Road. |
| Torbay Camera Society, . | Col. W. F. Macmullen. | C. R. Rowe. | Cockington, Torquay. |
| Tunbridge Wells Amateur Photographic Association, | F. G. Smart. | J. Chamberlain. | Tankerville, Cambridge Street. |
| Tyneside Camera Club, . | A. B. Gardiner. | J. F. M'Kie. | 9 Rye Hill Cottages. |
| Tyneside Geog. Camera Club, . | Duke of Northumberland, | J. Scott. | 10 Mosley Street, Newcastle-on-Tyne. |
| Wakefield Photographic Society, . | W. Woodhead. | R. Robson. | 1 Dunelm Ter., Wakefield. |
| Walsall Amateur Photo. Society, . | G. Warner. | W. T. Comer. | The Arcade. |
| Walton Photographic Society, . | F. O. Cresswell. | T. Bickerstaff. | 79 Rawcliffe Rd., Liverpool. |
| Warrington Photo. Society, . | F. V. L. Matthias. | A. C. Smithson. | 13 Chester Road. |
| Watford Photographic Society, . | Dr A. E. Cox. | C. J. Trevarthen. | Ashcroft, Bushey Hall Rd. |
| Wellcome Photographic Club, . | H. S. Wellcome. | F. S. Clarke. | Dartford, Kent. |
| Wessex Photographic Postal Club, . | Rev. W. M. Barnes | Rev. T. Perkins. | Tamworth Rectory, Blandford. |
| Weymouth Photographic Society, . | C. E. E. Mercer. | F. C. Mace. | 105 St Mary Street. |
| Whitby Camera Club, . | G. S. French. | W. Parkinson. | Ocean Road. |
| Widnes Photo. Society, . | L. West. | J. W. Towers. | Croft Street. |
| Windsor Camera Club, . | Sir F. Barry. | T. J. Cortland. | Thames Side, Windsor. |
| Wolverhampton Camera Club, . | J. Gale. | A. E. Painter. | 43 Lichfield Street. |
| Worcestershire Photo. Survey Soc., | Earl Beauchamp. | C. R. Sayer. | Finstall Mount, Bromsgrove. |
| Yeadon, etc., Photo. Soc., . | G. Proctor. | A. Marshall. | 10 Swain Hill Crescent. |
| York Photographic Society, . | F. G. C. Benson. | J. H. P. Felgate. | 51 Holgate Terrace. |
| SCOTLAND— | | | |
| Aberdeen Photographic Association, | J. S. Anderson. | G. H. Henderson. | 6 Mount Street. |
| Arbroath Amateur Photo. Society, . | R. Moodie. | J. Hood. | 94 High Street. |
| Blairstown, etc., Photo. Assoc., . | A. Geekie. | L. Falconer, jun. | James Street Cottage. |
| Brechin Photographic Association, . | W. S. Adamson. | J. M. Dunn. | Bank Street. |
| Dundee Advertiser Photo. Club, . | J. Macrae. | J. L. Scott. | 94 Commercial Street. |
| Dundee, etc., Photo. Association, . | G. D. Macdougald. | V. C. Baird. | Broughty Ferry. |
| Edinburgh Photographic Club, . | Dr T. Drinkwater. | T. Barclay. | 180 Dalkeith Road. |
| Edinburgh Photographic Society, . | J. F. Cundall. | J. S. McCulloch. | 34 North St David Street. |
| Falkirk Amateur Photo. Assoc., . | N. C. Murray. | J. Higgins. | West James Street. |
| Glasgow Eastern Photo. Association, | W. S. Crockett. | J. S. Black. | 25 Meadowpark Street. |
| Glasgow Southern Photographic Association, | J. M. M'Lean. | W. A. Frame. | 28 Bank Street, Hillhead. |
| Glasgow, etc., Amateur Photo. Assoc., | J. W. Reoch. | W. Goodwin. | 3 Lynedoch Street. |
| Glenalmond Photo. Club, . | A. S. Reid. | J. M. Thomson. | Trinity College. |
| Greenock Camera Club, . | R. B. Tough, jun. | W. D. Boyd. | 2 Church Place. |
| Kirkcaldy Photographic Society, . | A. B. Young. | S. Stewart. | 2 Salisbury Street. |
| Leith Amateur Photo. Association, | T. Wilson. | W. Duncan. | 36 Charlotte Street. |
| Midlothian Camera Club, . | T. Wilson. | G. Cleland. | 61 Leith Walk, Leith. |
| Monklands Photographic Society, . | J. Jack. | J. Hugginson. | 139 Graham Street, Airdrie. |
| Paisley Photographic Society, . | J. S. Bryce. | R. Milne. | Savings Bank, Johnstone. |
| Scottish Photographic Federation, . | H. Coates. | J. B. MacLachlan. | Blairstown. |
| Stereoscopic Society, . | J. Millar. | B. Diviri. | Viewfield, Huntley, N.B. |
| IRELAND— | | | |
| City of Belfast Y.M.C.A. Camera Club, | R. G. Moffett. | H. Cochrane, jun. | Wellington Place. |
| Photographic Society of Ireland, . | Prof. J. A. Scott. | R. Benson. | 3 Orwell Park, Rathgar, Dublin. |
| Queen's College, Belfast, Camera Club, | J. Wylie. | J. D. M. McCallum. | Students' Union, Queen's College. |
| Ulster Amateur Photo. Society, . | D. Elliot. | T. N. Murray. | The Museum, College Square North, Belfast. |

IRELAND.

PHARMACEUTICAL SOCIETY OF IRELAND,

67 LOWER MOUNT STREET, DUBLIN.

(INCORPORATED 1875.)

Officers.—*President*: William F. Wells. *Registrar*: A. T. Ferrall, 67
Lower Mount Street, Dublin.

Meetings.—First Wednesday in the month, at 3 P.M. The Anniversary Meeting
takes place on the first Monday in October.

Membership.—Annual Subscription, One Guinea. Examination Fees:
Pharmaceutical, Seven Guineas; Druggist, Four Guineas.

Publication, 1904-1905.—*Calendar* (including *Copies of Registers*),
1s. 9d. paper covers, 2s. 3d. cloth boards.

SECTION IV.

GEOGRAPHY, GEOLOGY, AND MINERALOGY.

LONDON.

ROYAL GEOGRAPHICAL SOCIETY,

1 SAVILE ROW, BURLINGTON GARDENS, W. (FOUNDED 1830.)

Officers.—*President*: Sir Clements R. Markham, K.C.B., F.R.S., F.S.A.
Secretary and Editor of Transactions: J. Scott Keltie.

Meetings.—Fortnightly, on Mondays at 8.30 P.M., from November to June inclusive, in the Theatre, Burlington Gardens, W. The Anniversary Meeting takes place in May. There are Technical Meetings about once a month, in the afternoon, in the Map Room.

Membership.—Entrance Fee, £5; Annual Subscription, £2; Life Composition, £85 at entrance.

Publications, 1905.—*The Geographical Journal*, monthly, 2s. (E. Stanford, Cockspur Street, S.W.). *The Year Book* for 1905.

List of Papers read from July 1904 to June 1905; and of the principal Papers contributed to the "Journal." The monthly dates are those of the "Journal" in which they appeared.

Anderson, Dr T.—On certain Recent Changes in the Crater of Stromboli. Feb.

Brooke, J. W.—A Journey West and North of Lake Rudolph. May.

Burdon, Maj. J. A.—The Fulani Emirates of Northern Nigeria. Dec.

Close, Maj. C. F., C.M.G., R.E.—The Ideal Topographical Map. June.

Colbeck, Capt. W., R.N.R.—National Antarctic Expedition—Observations on the Antarctic Sea-Ice. Apr.

Cotton, Maj. P. H. P. G.—A Journey through Northern Uganda. July.

Cronin, Rev. H. S.—Ptolemy's Map of Asia Minor: Method of Construction. Apr.

Crosthwait, Capt. H. L., R.E.—A Journey to Lake San Martin, Patagonia. Mar.

Cunninghame, Capt. B. A.—A Pioneer Journey in Angola. Aug.

Drygalski, Dr E.—The German Antarctic Expedition. Aug.

Elliot, Lieut.-Col. G. S. M'D., R.E.—The Anglo-French Niger-Chad Boundary Commission. Nov.

Evans, Dr J. W.—Hydrography of the Andes. Jan.

Ferrar, H. T., M.A., F.G.S.—Notes on the Physical Geography of the Antarctic Regions. Apr.

Fisher, Rev. A. B.—Western Uganda. Sept.

Günther, R. T.—Changes in the Level of the City of Naples. Aug.

Hall, R. N.—The Great Zimbabwe and other Ancient Ruins in Rhodesia. Apr.

Hedin, Dr S.—The Scientific Results of Dr Sven Hedin's Last Journey. Nov.

Hedley, Rev. J.—A Trip into the Chili Province, North China. May.

- Herbertson, Dr A. J.*, M.A., Ph.S.—Recent Discussions on the Scope and Educational Applications of Geography. Oct.
 —The Major Natural Regions: an Essay in Systematic Geography. Mar.
- Hoek, Dr H.*—Explorations in Bolivia. May.
- Howarth, O. J. R.*—Notes on an Irish Lake District. Feb.
- Huntington, E.*—The Mountains of Turkestan. Jan.
- Ionides, S. A.*—Description of an Astrolabe. Oct.
- Jessen, B. H.*—South-Western Abyssinia. Feb.
- Johnson, T. N.*—The Bathymetrical Survey of Loch Ness. Oct.
- Lewis, F. J.*, F.G.S.—Geographical Distribution of Vegetation of the Basins of the Rivers Eden, Tees, Wear, and Tyne. Sept.
- Manifold, Lieut.-Col. C. C.*—The Problem of the Upper Yangtze Provinces and their Communications. June.
- Markham, Sir C.*, K.C.B., F.R.S.—C. Reginald Enock's Journey in Peru. June.
- Mill, H. R.*, D.Sc.—England and Wales viewed Geographically. Dec.
- The Present Problems of Geography. Jan.
- Molyneux, A. J. C.*, F.G.S.—The Physical History of the Victoria Falls. Jan.
- Murray, J.*—Biology of Loch Ness. Oct.
- Murray, Sir J.*, K.C.B., F.R.S., and *L. Pullar*, F.R.S.—Bathymetrical Survey of the Fresh-water Lochs of Scotland. July, Nov., and Mar.
- Nordenskiöld, Dr O.*—The Swedish Antarctic Expedition. July.
- O'Driscoll, F.*—A Journey to the North of the Argentine Republic. Oct.
- Pettersson, Dr O.*—On the Influence of Ice-Melting upon Oceanic Circulation. Sept.
- Rabot, C.*—Glacial Reservoirs and their Outbursts. May.
- Rawling, Capt. C. G.*—Exploration of Western Tibet and Rudok. Apr.
- Royds, Lieut. C. W.*, R.N.—On the Meteorology of the Part of the Antarctic Regions where the "Discovery" Wintered. Apr.
- Sargent, A. J.*—Alpine Railways and International Commerce. June.
- Scott, Capt. R. F.*, R.N.—The National Antarctic Expedition. July.
- Geographical Results of the National Antarctic Expedition. Apr.
- Skottsberg, C.*—On the Zonal Distribution of South Atlantic and Antarctic Vegetation. Dec.
- Thomson, Dr J. P.*—Queensland. Aug.
- Turley, R. T.*—Some Notes on the River System of the Upper Liao, Manchuria. Mar.
- Watson, E. R.*, B.A., B.Sc.—Movements of the Waters of Loch Ness, as Indicated by Temperature Observations. Oct.
- On the Ionization of Air in Vessels Immersed in Deep Water in Loch Ness. Oct.
- Wedderburn, E. M.*, M.A.—Seiches Observed in Loch Ness. Oct.
- Wilson, Dr E. A.*—The Distribution of Antarctic Seals and Birds. Apr.
- Workman, Dr W. H.*—From Srinagar to the Sources of the Chogo Lungma Glacier. Mar.
- Younghusband, Sir F.*, K.C.I.E.—The Geographical Results of the Tibet Mission. May.

THE CHALLENGER SOCIETY,

FOR THE PROMOTION OF THE STUDY OF OCEANOGRAPHY.

Officers.—*Secretary*: Dr G. Herbert Fowler, 58 Bedford Gardens, Campden Hill, W.

Meetings.—Last Wednesday in October, January, April, and June, at 8 P.M.
 The Anniversary Meeting takes place in October.

Membership.—Annual Subscription, 10s. No Entrance Fee. The number of Fellows is limited to 30.

Publication.—*Blank Chart of the World* (Mercator's Projection). Sheet I. North Atlantic; Sheet II. South Atlantic. Price per sheet, 1s. 6d.

List of Papers read during Session 1904–1905.

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| <p><i>Dickson, Dr H. N.</i>—Hydrographical Observations in the North Atlantic, made by Dr R. N. Wolfenden's Yacht <i>Silver Belle</i> in 1903 and 1904. May 10.</p> <p><i>Gardiner, Dr J. S.</i>—Distribution of Marine Larvæ. June 29.</p> <p><i>Holt, E. W. L., and W. M. Tattersall.</i>—Schizopoda of the North-eastern</p> | <p>Atlantic Slope, from the Cruises of the <i>Helga</i>, <i>Oceana</i>, and H.M.S. <i>Research</i>. June 29.</p> <p><i>Murray, Sir John, K.C.B.</i>—The Relation of Oceanography to other Sciences. Jan. 25.</p> <p><i>Wolfenden, Dr R. N.</i>—Some Copepoda from the Gauss Antarctic Expedition. Jan. 25.</p> |
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HAKLUYT SOCIETY,

1 SAVILE ROW (ROYAL GEOGRAPHICAL SOCIETY).

Officers.—*President*: Sir C. R. Markham, K.C.B., F.R.S. *Hon. Secretary and Treasurer*: B. H. Soulsby, F.S.A., Map Room, British Museum, W.C.
Agent: Quaritch, 15 Piccadilly, W.

Meetings.—The Anniversary Meeting takes place in May.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publication during 1904.—(Series 2, Vols. XIV., XV.) *The Voyages of Pedro Fernandez de Quiros, 1595 to 1606.* Translated and edited by Sir Clements Markham, K.C.B., Pres. R.G.S., President of the Hakluyt Society. With a Note on the Cartography of the Southern Continent, and a Bibliography by Basil H. Soulsby, F.S.A., Superintendent of the Map Department, British Museum. 2 Vols., 3 Maps. Bibliography, Index.

GEOLOGICAL SURVEY OF GREAT BRITAIN,

28 JERMYN STREET, LONDON, S.W.

Director: J. J. H. Teall, M.A., D.Sc., F.R.S.

History.—The Geological Survey was founded in 1832 as a branch of the Ordnance Survey; it became a separate establishment in 1845. It comprises the Geological Survey of Great Britain and of Ireland. The Survey is under supervision of the Director at the Head Office in Jermyn Street, London. The Office for the Survey in Scotland is at Sheriff Court Buildings, Edinburgh.

The objects of the Survey are to prepare detailed geological maps, sections, and descriptive memoirs, illustrating the geological structure, petrography, palæontology, mining and agricultural resources, conditions of water-supply, and other economic and sanitary questions throughout Great Britain. See *Scotland*.

GEOLOGICAL SURVEY OF ENGLAND AND WALES.*Office*: The Museum of Practical Geology, Jermyn Street, London.*Assistant to the Director*: H. B. Woodward, F.R.S.

The general map of the country is published on the scale of one inch to a mile, divided into 258 sheets and quarter-sheets of the Old Series of Ordnance Maps, all of which have now been published. Besides the sheets that express the

structure and boundaries of the solid rocks below the surface, another series on the same scale is prepared, to show the distribution of the superficial deposits. This "Drift Map" was not begun until about half of the other series of maps had been surveyed. One hundred and nineteen sheets and quarter-sheets of it have been issued; but the survey of the overlying formations will be prosecuted until the whole country has been surveyed, so as to afford materials for a complete map of the sub-soils of England and Wales. The prices of the one-inch maps are 1s. 6d. to 3s. for quarter-sheets, 4s. to 8s. 6d. for sheets. The results of the latest surveys in the middle and south of England and in South Wales are published on the New Series of Ordnance Maps; and of these sixty-three sheets have been issued, showing the solid rocks and drift deposits, at prices from 1s. 6d. to 8s. 6d. The newer sheets are printed in colours.

In the mineral districts of the Northern Counties, a number of maps on the scale of six inches to a mile have been engraved and published. Maps of parts of North Staffordshire (Coalfield), Leicestershire, and South Wales have also been published on the same scale, with engraved geological lines. And of the work in other districts which have been surveyed on the six-inch maps, MS. copies are kept at the Office for public reference, and copies can be supplied at the cost of drawing and colouring the same. The prices of the published six-inch maps are 4s. to 6s.

Horizontal sections on the scale, vertical and horizontal, of six inches to a mile, are published to explain the geological structure of the country. Of these, 148 sheets have been published; the price of each sheet is 5s.

Vertical sections, usually on the scale of forty feet to one inch, have been prepared, to show the succession of strata in mineral-fields and in a few localities of special geological interest, such as the Coasts of Dorsetshire, East Yorkshire, and the Isle of Wight. The price of each sheet is 3s. 6d. Eighty-six are published.

An Index Map in fifteen sheets, on the scale of one inch to four miles, has been published, printed in colours. The cost of each sheet is 2s. 6d., and of the whole map, 37s. Explanatory Memoirs are issued to accompany the sheets or quarter-sheets of the one-inch map, or to describe special Districts or Formations. Of these about 140 have been published. They vary in price from 2d. to 2 guineas, according to their size and the number of illustrations.

The Publications of the Survey during 1904 were :—

One-inch Maps (New Series).

Sheets 355 (Kingsbridge) and 356 (Start Point), drift, hand-coloured, additions.

Six-inch Maps.

Glamorganshire.—24, 25, 26, 33, N.W., N.E., S.W., S.E., of each sheet. Uncoloured, with engraved geological lines.

The following drift maps, previously issued hand-coloured, have been replaced by colour-printed maps :—

Sheets 249 (Newport), drift; 268 (Reading), drift; 300 (Alresford), drift; 315 (Southampton), drift; 316 (Fareham), drift; 328 (Dorchester), drift; 329 (Bournemouth), drift; 342 (Portland and Weymouth), drift; 343 (Swanage), drift.

Six-inch Maps.

Leicestershire :—22 N.E. Donisthorpe; 22 N.W. Netherseal.

Index to colours used in the six-inch maps of the North Staffordshire Coalfield.

Vertical Sections.

Sheet 87, sections in the coal measures near Neath, Swansea, and Llanelly.

Memoirs.

General.—*Summary of Progress of the Geological Survey of the United Kingdom for 1903.*

Cretaceous Rocks of Britain. Vol. III.

District.—*Geology of the North Staffordshire Coalfield.*

Geology of the South Wales Coalfield. Part V. (the Country around Merthyr Tydfil); and Part VI. (the Country around Bridgend).

Water-Supply of Lincolnshire from Underground Sources.

Sheet Memoirs.—*Geology of the Oolitic and Cretaceous Rocks South of Scarborough.* Second edition.

Geology of the Country around Kingsbridge and Salcombe.

MUSEUM OF PRACTICAL GEOLOGY, JERMYN STREET.

Officers.—*Director:* J. J. H. Teall, M.A., D.Sc., F.R.S.

Curator: J. Allen Howe, B.Sc., F.G.S.

The Museum was originally established in Craig's Court, Charing Cross, and the collections consisted mainly of specimens obtained by the Geological Survey and by the Commissioners appointed to ascertain a suitable stone for the construction of the new Houses of Parliament. The present Museum was opened by the late Prince Consort in 1851. It contains a large collection of British building stones and ornamental stones, such as marbles and granites; a collection of minerals, with special reference to those of economic value; a series of geological models; a collection of British fossils, arranged in ascending stratigraphical order; and a petrographical gallery for the display of rock-specimens. Numerous examples of the Survey Maps are hung round the Museum. A Handbook to the Museum has been issued, price 6d. A Handbook to a Collection of the Minerals of the British Islands, in the Museum of Practical Geology, Jermyn Street, London, S.W., price 1s.

There is a Library of about 20,000 volumes, mainly on Geology, Mineralogy, and Palæontology, which may be consulted by any person interested in those subjects. The very extensive collection of Geological Photographs, formed by a Committee of the British Association, has been deposited in this Library.

New specimens are being added daily to the mineralogical, palæontological, and petrographical collections.

Open: 10 A.M. to 4 P.M. from November to February, rest of year to 5 P.M. daily, including Sunday afternoons; Mondays and Saturdays to 10 P.M.
Closed on Christmas Day and Good Friday.

GEOLOGICAL SOCIETY OF LONDON, BURLINGTON HOUSE, PICCADILLY, W.

(FOUNDED 1807; INCORPORATED 1826 BY ROYAL CHARTER.)

Officers.—*President:* J. E. Marr, M.A., F.R.S. *Hon. Secretaries:* Prof. W. W. Watts, M.A.; Prof. E. J. Garwood, M.A. *Assistant Secretary:* L. L. Belinfante, M.Sc., Burlington House.

Meetings.—Fortnightly, from November to June inclusive. The Anniversary Meeting takes place in February.

Membership.—Entrance Fee, £6, 6s.; Composition Fee, £35; Annual Subscription, £2, 2s.

Papers read during Session 1904–1905. Abstracts of all are published about a week after reading, and most subsequently appear in the "Quarterly Journal," price 5s. per number.

- Arber, E. A. N., M.A., F.G.S.**—On the Sporangium-like Organs of *Glossopteris Browniana*, Brongn. Feb. 1.
- Arnold-Bemrose, H. H., M.A., F.G.S., and E. T. Newton, F.R.S., V.P.G.S.**—On an Ossiferous Cavern of Pleistocene Age at Hoe-Grange Quarry, Longcliffe, near Brassington (Derbyshire). Nov. 23.
- Avebury, Rt. Hon. the Lord, F.R.S., F.G.S.**—An Experiment in Mountain-Building. Part II. Mar. 22.
- Beadnell, H. J. L., F.G.S.**—The Relations of the Eocene and the Cretaceous Rocks in the Esna-Awan Reach of the Nile Valley. June 21.
- Bellamy, C. V., M.I.C.E., F.G.S., and A. J. Jukes-Browne, B.A., F.G.S.**—The Geology of Cyprus. Jan. 4.
- Blake, Rev. J. F., M.A., F.G.S.**—On the Order of Succession of the Manx Slates in their Northern Half, and its Bearing on the Origin of the Schistose Breccia associated therewith. Feb. 22.
- Bonney, Prof. T. G., Sc.D., F.R.S., and Miss C. A. Raisin, D.Sc.**—The Microscopic Structure of Minerals forming Serpentine, and their Relation to its History. June 7.
- Buckman, S. S., F.G.S.**—Certain Genera and Species of *Lytoceratidae*. Dec. 21.
- Davison, C., Sc.D., F.G.S.**—The Derby Earthquakes of July 3rd, 1904. Dec. 21.
- The Leicester Earthquakes of August 4th, 1893, and June 21st, 1904. Dec. 21.
- Twin-Earthquakes. Dec. 21.
- Donald, Miss J.**—Observations on some of the *Loxonematidae*, with Descriptions of two New Species. Mar. 8.
- On some Gasteropoda from the Silurian Rocks of Llangadock (Caermarthenshire). Mar. 8.
- Elsden, J. V., B.Sc., F.G.S.**—On the Igneous Rocks occurring between St David's Head and Strumble Head (Pembrokeshire). May 24.
- Fearnside, W. G., M.A., F.G.S.**—The Geology of Arenig Fawr and Moel Llyfnant. Jan. 18.
- Fisher, Rev. O., M.A., F.G.S.**—On the Occurrence of *Elephas meridionalis* at Dewlish (Dorset). Second Communication: Human Agency Suggested. Nov. 9.
- Garwood, Prof. E. J., M.A.**—The Tarns of the Canton Ticino. June 7.
- Healey, Miss M.**—Notes on Upper Jurassic Ammonites, with Special Reference to Specimens in the University Museum, Oxford: II. Nov. 9.
- Kidston, R., F.R.S., F.G.S.**—On the Divisions and Correlation of the Upper Portion of the Coal-Measures, with Special Reference to their Development in the Midland Counties of England. Apr. 5.
- Marshall, P., M.A., D.Sc.**—The Geology of Dunedin (New Zealand). May 10.
- Mellor, E. T., B.Sc., F.G.S.**—A Contribution to the Study of the Glacial (Dwyka) Conglomerate in the Transvaal. June 21.
- Middleton, F. E., F.G.S.**—On the Wash-Outs in the Middle Coal-Measures of South Yorkshire. Feb. 22.
- Moody, G. T., D.Sc., F.C.S.**—The Causes of Variegation in Keuper Marl and in other Calcareous Rocks. June 21.
- Preumont, G. F. J.**—Notes on the Geological Aspect of some of the North-Eastern Territories of the Congo Free State. Apr. 19.
- Rastall, R. H., B.A., F.G.S.**—The Blea-Wyke Beds and the Dogger in North-East Yorkshire. Apr. 19.
- Richardson, L., F.G.S.**—The Rhætic Rocks of Monmouthshire. Mar. 22.
- The Rhætic and Contiguous Deposits of Glamorganshire. May 24.

- Richardson, L.*, F.G.S.—On the Occurrence of Rhætic Rocks at Berrow Hill, near Tewkesbury (Gloucestershire). May 24.
- Sibly, T. F.*, B.Sc.—The Carboniferous Limestone of the Weston-super-Mare District. May 10.
- Speaks, Prof. E. W.*, D.Sc., F.G.S.—The Chemical and Mineralogical Evidence as to the Origin of the Dolomites of Southern Tyrol. Dec. 7.
- Spicer, Rev. E. C.*, M.A., F.G.S.—Sarsen-Stones in a Clay-Pit. Nov. 9.
- Stobbs, J. T.*, F.G.S., and *W. Hind*, M.D., F.G.S.—The Marine Beds in the Coal-Measures of North Staffordshire, with Notes on their Palæontology. Jan. 4.
- Treacher, L.*, F.G.S., and *H. J. O. White*, F.G.S.—On the Age and Relations of the Phosphatic Chalk of Taplow. Apr. 5.
- Walford, E. A.*, F.G.S.—On some New Oolitic Strata in Oxfordshire. June 21.
- Woolacott, D.*, D.Sc., F.G.S.—The Superficial Deposits and pre-Glacial Valleys of the Northumberland and Durham Coalfield. Nov. 23.

GEOLOGISTS' ASSOCIATION,

UNIVERSITY COLLEGE, GOWER STREET, W.C. (FOUNDED 1858.)

Officers.—*President*: A. Smith Woodward, LL.D., F.R.S. *Hon. Treasurer*: R. Holland. *Hon. Secretaries*: Percy Emary, F.G.S., 20 Turle Road, Tollington Park, N.; A. C. Young, F.C.S., 53A Algiers Road, Lewisham, S.E. *Hon. Editor*: A. E. Salter, D.Sc., F.G.S.

Meetings.—First Friday in each month at 8 p.m., from November to July inclusive. The Anniversary Meeting takes place in February.

Membership.—Annual Subscription, 10s; Entrance Fee, 10s; Life Composition, £7, 10s.

Publications.—*Proceedings*, Vol. XVIII., Parts 8, 9, and 10; Vol. XIX., Parts 1, 2, price 1s. 6d. per part.

*Papers read during Session 1904–1905. Those marked * have been published.*

- Cullis, C. G.*, D.Sc., F.G.S.—The Third Issue of the British Association Geological Photographs. Jan. 6.
- Hinton, M. A. C.*, and *A. S. Kennard*.—The Relative Ages of the Stone Implements of the Lower Thames Valley. Apr. 7.*
- Holland, W. J.*, LL.D.—Explorations for Fossil Bones in Western North America, with Special Reference to the Skeleton of *Diplodocus*, of which a Plaster Cast is now Mounted in the British Museum (Natural History). May 5.
- Lapworth, H.*, F.G.S.—The Geology of Central Wales. July 7.
- Miers, Prof. H. A.*, M.A., F.R.S.—The Diamond Mines of South Africa. Mar. 3.
- Salter, A. E.*, D.Sc., F.G.S.—On the Superficial Deposits of Central and Parts of Southern England. Dec. 2.*
- Watts, Prof. W. W.*, M.A., F.R.S.—The Igneous Rocks of the Welsh Border. July 7.
- Woodward, A. S.*, LL.D., F.R.S.—Modern Methods in the Study of Fossils. Feb. 3.*
- Note on a Piece of Mosasaurian Jaw obtained by Mr G. E. Dibley from the Chalk of Cuxton, Kent. June 2.
- Young, G. W.*—The Chalk Area of North-East Surrey. June 2.

MINERALOGICAL SOCIETY.

(With which is united the Crystallogical Society.)

(FOUNDED 1876.)

Officers.—*President*: Prof. H. A. Miers, M.A., D.Sc., F.R.S. *General Secretary*: L. Fletcher, M.A., F.R.S., 35 Woodville Gardens, Ealing, W.

Meetings.—Four times a year, held, by kind permission, in the apartments of the Geological Society, Burlington House, London, at 8 P.M. The Anniversary Meeting will take place in November.

Membership.—Entrance Fee, One Guinea; Annual Subscription, One Guinea; Life Composition, Fifteen Guineas.

Publication.—*Mineralogical Magazine and Journal of the Mineralogical Society*, Vol. XIV., Parts 63 and 64, price 5s. per part.

*Papers read during Session 1904–1905. Those published in the “Mineralogical Magazine” are marked *.*

- Barker, T. V.*—On the Regular Growth of Crystals of one Substance upon those of another. Jan. 31.
- Bowman, H. L.*, M.A., F.C.S.—On the Discovery of Bertrandite in Cornwall. Nov. 15.
- Currie, J.*, M.A., F.R.S.E.—Note on some New Localities for Grolite and Tobermorite. Nov. 15.*
- Evans, J. W.*, LL.B., D.Sc., F.G.S.—On some New Forms of Quartz-Wedge and their Uses. Nov. 15.*
- The Identity of the Ancient Amiantos of Cyprus with Chrysotile. June 14.
- The Application of Methods of Descriptive Geometry to the Gnomonic Projection of Crystals. June 14.
- Hallowes, K. A. K.*—Apparatus for Determining the Density of Small Grains. (Communicated.) Jan. 31.
- Hatch, F. H.*, Ph.D., F.G.S., and *G. S. Corstorphine*, Ph.D., F.G.S.—Description of the Big Diamond Recently Found at the Premier Mine, Transvaal. (Communicated.) Mar. 15.
- Hilton, H.*, M.A.—Some Applications of the Gnomonic Projection to Crystallography. (Communicated.) Nov. 15.*
- Hutchinson, A.*, M.A., Ph.D., F.C.S., F.G.S.—The Chemical Composition of Lengenbachite. June 14.
- Lindsey, C. R.*, B.Sc.—Note on the Occurrence of Brookite in the Cleveland Ironstone. Nov. 15.*
- Miers, H. A.*, M.A., D.Sc., F.R.S.—On Danalite from Cornwall. Jan. 31.
- Crystallographic Characters of Barium-Radium Bromide. Jan. 21.
- Prior, G. T.*, M.A., F.G.S.—On Dundasite from Wales. Mar. 15.
- The Chemical Composition of Hutchinsonite. June 14.
- and *G. F. H. Smith*, M.A.—Notes on Various Minerals from the Binnenthal, Switzerland. Mar. 15.
- On a New Oxychloride of Copper from Sierra Gorda, Chili. Mar. 15.
- Russell, A. E. I. M.*—On some New Mineral Localities in Cornwall and Devon. Mar. 15.
- Smith, G. F. H.*, M.A., F.R.A.S.—On the Improved Form of Refractometer. Nov. 15.*
- Solly, R. H.*, M.A., F.G.S.—On Marrite, Lengenbachite, and Bowmanite, Three New Minerals from the Binnenthal. Nov. 15.*
- On some Curious Crystals of Blende. Nov. 15.*
- Spencer, L. J.*, M.A., F.G.S.—On a Crystal of Phenakite from German East Africa. Mar. 15.
- Thomas, H. H.*, B.A., F.G.S.—On an Epidote from Inverness-shire. Jan. 31.*

PALÆONTOGRAPHICAL SOCIETY.

(Founded in 1847 for the Publication of Monographs on British Fossils.)

Officers.—*President*: Dr H. Woodward, F.R.S. *Hon. Secretary*: A. S. Woodward, LL.D., F.R.S., Natural History Museum, S.W.

Meetings.—The Annual Meeting takes place in June.

Membership.—Annual Subscription, 21s.

The Palæontographical Society publishes yearly a Volume on Palæontological Subjects. Volume LVIII., issued for 1904, price £1, 5s. (Dulau & Co.), contains the following parts of Monographs.

Buckman, S. S.—The Inferior Oolite Ammonites. Part XII.
Elles, Miss, and Miss Wood.—British Graptolites. Part IV.
Hind, Dr W.—The Carboniferous Lamellibranchiata. Vol. II., Part III.

Reed, F. R. C.—The Lower Palæozoic Trilobites of Girvan. Part II.
Traquair, Dr R. H.—The Fishes of the Old Red Sandstone. Part II., No. 2.
Woods, H.—The Cretaceous Lamellibranchia. Vol. II., Part I.

COUNTRY.

CORNWALL, ROYAL GEOLOGICAL SOCIETY OF, PUBLIC BUILDINGS, PENZANCE. (FOUNDED 1814.)

Officers.—*President*: Dr R. Pearse, F.G.S. *Secretary and Curator*: J. B. Cornish, Penzance.

Meetings.—When called by the Council. The Anniversary Meeting takes place in October.

Membership.—No Entrance Fee; Annual Subscription, 21s. Life Members, £10, 10s.

Publication.—*Transactions*, Vol. XIII., Part 1, 2s. 6d.

Papers read at the Meeting held on October 25, 1904, and published in the "Transactions."

Collins, J. H., F.G.S.—President's Address. Oct. 25.

Fox, H., F.G.S.—The Fossils of the Parish of St Minver. Oct. 25.

LIVERPOOL GEOGRAPHICAL SOCIETY, 14 HARGREAVES BUILDINGS, 5 CHAPEL STREET. (FOUNDED 1891; INCORPORATED 1899.)

Officers.—*President*: Right Hon. the Earl of Derby, K.G., G.C.B. *Secretary* Staff-Commander E. C. D. Phillips, R.N., F.R.G.S.

Meetings.—On alternate Thursday evenings, at 8 p.m., from October to April. Special Meetings are arranged for when necessary. The Annual Meeting is in May or June.

Membership.—No Entrance Fee ; Annual Subscription : Members, 21s. ; Associates, 10s. 6d.

Publications during 1904.—*Transactions and Annual Report* (for 1904), 1s.

Papers read during Session 1904–1905, and published in the “Transactions.”

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| <i>Abbott, Rev. W. H., M.A.</i> —New Guinea. Mar. 17. | <i>Garwood, Prof. E. J., M.A.</i> —The Tour of Kangchenjunga. Jan. 21. |
| <i>Barrett-Hamilton, Capt. G. E. H., B.A., F.R.G.S.</i> —The Fur Seal Islands of Bering's Sea. Feb. 4. | <i>Hall, R. N.</i> —The Great Zimbabwe : Rhodesia. Nov. 3. |
| <i>Bateson, Surg. V., F.R.G.S.</i> —To the Forbidden Frontier : Tibet. Mar. 31. | <i>Hodson, T. C.</i> —The Assam Hills. Nov. 17. |
| <i>Collie, Prof. J. N., Ph.D., F.R.S.</i> —Exploration in the Canadian Rocky Mountains. Mar. 3. | <i>Moore, J. M., M.D., F.R.G.S.</i> —A Tour in Austria and Hungary. Oct. 20. |
| <i>Collyer, Rev. C. T.</i> —Fifteen Years in China and Korea. Feb. 18. | <i>Scott, Capt., R.N.</i> —Farthest South. Dec. 2. |
| <i>De Windt, H.</i> —From Paris to New York, Overland. Oct. 6. | <i>Smith, Rev. H., M.A., F.R.G.S.</i> —Gordon and Kitchener ; or the True Story of Khartoum. Dec. 29. |
| | <i>Turner, S.</i> —Travel, Exploration, and Climbing in Siberia. Dec. 15. |

LIVERPOOL GEOLOGICAL SOCIETY,

ROYAL INSTITUTION, COLQUITT STREET. (FOUNDED 1859.)

Officers.—*President*: H. C. Beasley. *Hon. Secretary*: W. A. Whitehead, B.Sc., 24 Balliol Road, Bootle.

Meetings.—Second Tuesday in each month, from October to April inclusive, at 7 P.M. The Anniversary Meeting takes place in October.

Membership.—No Entrance Fee ; Annual Subscription, 21s. ; Life Composition, £10, 10s.

Publication.—*Proceedings*, Session 45 (1903–1904), 3s.

Papers read during Session 1904–1905.

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| <i>Anderson, Dr T., F.G.S.</i> —The Lipari Isles and its Volcanoes. Nov. 8. | Glacial Geology of Anglesey. Dec. 13. |
| <i>Broderick, H., M.A.</i> —Notes on a Fault-Fissure at Ingleborough. Feb. 14. | <i>Reade, T. M., C.E., F.G.S., F.R.I.B.A.</i> —Notes on some Specimens of Boulder Clay. Jan. 10. |
| <i>Cope, T. H.</i> —Some Geological Problems in South-West Lancashire. Oct. 11. | — and <i>P. Holland, F.I.C.</i> —Sands and Sediments. Part II.—Geological Sediments of Marine, Estuarine, or Freshwater Origin. Apr. 11. |
| <i>Dickson, E., F.G.S.</i> —Notes on some Physiographical and Surface Features in the Lake District. Mar. 14. | <i>Ross, W. M'G., B.E.</i> —The Physical Features and Geology of British East Africa. Feb. 28. |
| <i>Edwards, W., F.G.S.</i> —Notes on | |

MANCHESTER GEOLOGICAL AND MINING SOCIETY,

QUEEN'S CHAMBERS, 5 JOHN DALTON STREET.

(FOUNDED 1838.)

Officers.—*President*: Col. G. H. Hollingworth, F.G.S. *Hon. Secretary*: W. Saint, H.M.I.M. *Assistant Secretary*: W. Wrench Lee.

Meetings.—Second Tuesday in month from October to June. The Anniversary Meeting is held in October.

Membership.—Annual Subscription, 20s.

Publication.—*Transactions*, Vol. XXVIII., Parts 10–15, 2s 6d. each part.

[No Return.]

MANCHESTER GEOGRAPHICAL SOCIETY,

16 ST MARY'S PARSONAGE.

Officers.—*President*: H.R.H. the Prince of Wales, K.G. *Hon. Secretaries*: F. Zimmern; J. Howard Reed. *Assistant Secretary*: H. Sowerbutts.

Meetings.—The Anniversary Meeting is held in May.

Membership.—No Entrance Fee; Annual Subscription, 21s.; Life Composition, 10 Guineas.

Publications.—*Journal*, Vol. XIX., Parts 7 to 12; Vol. XX., Parts 1 to 6, issued to Members only. (Monthly notices *re* Meetings, etc.)

Papers read during Session 1904–1905, and published in the "Journal" of the Society.

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| <i>Butterworth, Coun. W.</i> —A Visit to Portugal. Nov. 22. | <i>Moore, Dr J. M.</i> , F.R.G.S.—Travels in Austria and Hungary. Oct. 12. |
| <i>Dann, E. W.</i> , B.A., F.R.G.S.—What is Geography?—The Teacher's Standpoint. Dec. 13. | <i>Moss, C. E.</i> , B.Sc.—The Botanical Geography of a Pennine Stream. Mar. 21. |
| <i>Darby, Rev. R. D.</i> —Congo. Apr. 18. | <i>Oldham, H. Y.</i> , M.A., F.R.G.S.—Report on the British Association Meeting at Cambridge. Dec. 13. |
| <i>Fisher, Rev. A. B.</i> , F.R.G.S.—Western Uganda. Oct. 19. | <i>Reed, J. H.</i> —From Capetown to Cairo. Jan. 24. |
| <i>Gunson, W. T.</i> , C.E.—Report on the International Geographical Congress, 1904. Dec. 20. | <i>Rees, Rev. F. A.</i> —My Experiences in America. Apr. 4. |
| <i>Hall, R. N.</i> , F.R.G.S.—The Ancient Phallic Temples of the Great Zimbabwe, Rhodesia, and the Land of King Solomon's Gold. Jan. 10. | — Report on the International Geographical Congress, 1904. Dec. 20. |
| <i>Heywood, A.</i> —Japan. Dec. 6. | <i>Smith, J. R.</i> —Interesting Reminiscences of the Life of William Cowper (Poet): his Rural Walks in and about Olney, with Quotations from his Works. Feb. 7. |
| <i>Heywood, Miss E.</i> —A Journey in Sicily. Nov. 8. | <i>Sykes, H. R.</i> , F.R.G.S.—Eastern Persia. Mar. 14. |
| <i>Lafond, E. E.</i> —The Deccan and the Mahrattas. Feb. 21. | <i>Woolley, H.</i> , F.R.G.S.—The Canadian Rocky Mountains. Mar. 21. |
| <i>Martin, H. C.</i> , F.R.G.S.—Report on International Geographical Congress, 1904. Dec. 20. | |

TYNESIDE GEOGRAPHICAL SOCIETY,

GEOGRAPHICAL INSTITUTE, BARRAS BRIDGE,
NEWCASTLE-ON-TYNE.

Officers.—*President*: His Grace the Duke of Northumberland, K.G.
Secretary: Herbert Shaw, B.A., F.R.G.S.

Meetings.—On Tuesdays at 7.30 P.M., from October to March. The Anniversary Meeting is held on first Tuesday in November.

Membership.—No Entrance Fee ; Annual Subscription, 10s.

Publication.—*Journal*, price 6d. to Non-Members.

YORKSHIRE GEOLOGICAL AND POLYTECHNIC SOCIETY,

HOPTON, MIRFIELD.

Officers.—*President*: Marquis of Ripon, K.G., F.R.S. *Hon. Secretary*: Rev. W. L. Carter, M.A., F.G.S., Hopton, Mirfield.

Meetings.—Three or Four General Meetings held at intervals. The Anniversary Meeting takes place in November.

Membership.—No Entrance Fee ; Annual Subscription, 13s. ;
Life Composition, £8, 6s.

Publication during 1904.—*Proceedings*, Vol. XV., Part 2, price 5s.

Papers read during Session 1904–1905.

Carter, Rev. W. L., M.A., F.G.S.—The Geological History of the Don River System. July 8.

Culpin, H.—A Fault in the Magnesian Limestone near Cusworth. July 8.

Dwerryhouse, A. R., M.Sc., F.G.S.—Final Report of the Committee for the Investigation of the Underground Waters of Ingleborough. Nov. 3.

—The Geological Structure of Sedburgh and District. May 27.

Gregory, E. E.—Recent Investigations respecting the Glacial Lakes in the Areas adjoining Airedale. Nov. 3.

Johns, C., M.I.Mech.E., F.G.S.—Is the Theory of the Formation of the Coalfields of Great Britain by Secular Upheaval and Depression Tenable? Mar. 2.

Kendall, Prof. P. F., F.G.S.—Earth Movements which have Affected the Cleveland Area. Nov. 3.

—and *Rev. W. L. Carter*, M.A., F.G.S.—On the Glaciation of the Lincolnshire Wolds. Apr. 24.

Stather, J. W., F.G.S.—Notes on the Vertical Distribution of East Yorkshire Boulders. Nov. 3.

SCOTLAND.

GEOLOGICAL SURVEY OF GREAT BRITAIN.

Office in Scotland: Sheriff Court Buildings, Edinburgh. *Assistant to the Director*: John Horne, LL.D., F.R.S.L. & E.

The Survey of Scotland was begun in 1854 as part of that of Great Britain. Ordnance six-inch maps being available, they have been used throughout the whole of the mapping in Scotland, and those which show the coal-fields and other tracts have been engraved and published, to the number of 126. The work is reduced from the six-inch field-maps to the one-inch sheets of the Ordnance Survey, of which sixty-seven have now been published, representing nearly the whole of the country south of the Highland Border, with parts of the Northern, Western, and Eastern Highlands. The size of these one-inch maps is smaller than that of the full sheets of the English maps, and their price ranges from 4s. to 6s. Nine Horizontal Sections, price 5s., eight Vertical Sections,

price 3s. 6d., and twenty-six Memoirs explanatory of sheets have been published, and several are far advanced in preparation. The work of the Survey is now concentrated upon the Highlands and Western Isles, and many interesting and important results have been obtained.

The Publications of the Survey during 1904 were:—

One-inch Maps.—Skye 70. West Central Skye.

District Memoir.—The Tertiary Igneous Rocks of Skye, by A. Harker, M.A., F.R.S., with Notes by C. T. Clough, M.A., F.G.S. 481 pp., 27 plates, 84 figs., coloured geological map. Price 9s.

Sheet Memoir.—Geology of West Central Skye with Soay, by C. T. Clough, M.A., F.G.S., and A. Harker, M.A., F.R.S. 59 pp., 10 figs. Price 1s. 6d.

Vertical Section 2A.—Illustrative of the Fifeshire Coalfield.

EDINBURGH GEOLOGICAL SOCIETY,

INDIA BUILDINGS, GEORGE IV. BRIDGE. (FOUNDED 1834.)

Officers.—*President*: James Currie, M.A., F.R.S.E. *Secretary*: J. A. Johnston, 7 Annandale Street, Edinburgh.

Meetings.—Third Wednesday in each month, from November to March, at 8 p.m. The Anniversary Meeting takes place in October.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 12s. 6d.; Life Composition, £6, 6s. on joining, thereafter varying according to amount of subscriptions paid.

Publications.—*Transactions.*

Papers read during Session 1904–1905. Those marked (P) have been published.

Anderson, E. M., B.A., B.Sc.—The Dynamics of Faulting. (P.) Mar. 15.

Burt, A.—Notes on a Journey through British North Borneo. Jan. 18.

Cadell, H. M., B.Sc., F.R.S.E.—Notes on the Pre-Glacial River System of the Forth. Jan. 18.

Crampton, Dr.—On the Correlation of the Lower Limestones of Aberlady, Dunbar, and St Monans. (P.) Dec. 21.

Currie, Jas., M.A., F.R.S.E.—Exhibition of Stassfurt Salts, with Remarks. (P.) Mar. 15.

Hinzman, L. W., B.A., F.R.S.E.—Notes on Rock Specimens from the Flannan Islands Collected by Mr W. Eagle Clarke, F.R.S.E. Feb. 15.

Johnston, J. A.—Exhibition of Tasmanite, with Notes. Mar. 15.

Martin, R.—Coal Mining in the Musselburgh Coal Field. (P.) Feb. 15.

Muir, T. S., M.A.—Across the Great Snow Field of Iceland. Nov. 16.

Peach, B. N., LL.D., F.R.S.—Presidential Address.—The Higher Crustacea of the Scottish Carboniferous Rocks—(Abstract P.) Oct. 19.

Pirie, Dr.—On the Graptolite-bearing Rocks of the South Orkney Islands. Dec. 21.

Traquair, R. H., M.D., LL.D., F.R.S.—Lantern Demonstration on the Fishes of the Upper Old Red Sandstone of the Moray Firth Area. Mar. 15.

ROYAL SCOTTISH GEOGRAPHICAL SOCIETY,

QUEEN STREET, EDINBURGH. (FOUNDED OCT. 1884.)

Patron.—H.M. The King.

Officers.—*President* : Sir John Murray, K.C.B. *Secretary* : Lieut. E. H. Shackleton, 14 South Learmonth Gardens.

Meetings of the Society held monthly, from November to May inclusive, in Edinburgh and Glasgow. The Anniversary Meeting takes place in November. There are also periodical meetings in Dundee and Aberdeen.

Membership.—Annual Subscription, One Guinea.

List of Papers read during Session 1904–1905.

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| <i>Abbot, Rev. W. H.</i> —The South Sea Cannibal Islands. Feb. | <i>Hill, A.</i> —Lake Titicaca. Jan. |
| <i>Anderson, Dr T.</i> —The Volcanoes of the Lipari Islands. Mar. | <i>Scott, Capt.</i> —Furthest South. Nov. |
| <i>Bensusan, S. L.</i> —Morocco. Jan. | <i>Shackleton, Lieut. E. H.</i> —Adventures near the South Pole. Dec. |
| <i>Brown, R. N. R.</i> —The Scotia in Antarctic Seas. Nov. | <i>Turner, S.</i> —The Altai Mountains, Siberia. Mar. |
| <i>Clark, D. E.</i> —Birds as Travellers. Dec. | <i>Voss, Capt.</i> —Voyage Round the World in a Dug-out. Dec. |
| <i>Freshfield, D. W.</i> —The Himalayas. Feb. | <i>Wigner, Dr J. H.</i> —The Great Snow-field of Iceland. Jan. |
| <i>Geil, W. E.</i> —Travels among the Pigmies of Central Africa. Nov. | <i>Younghusband, Sir F., K.C.I.E.</i> —The Geographical Results of the Tibet Mission. Mar. |

IRELAND.

GEOLOGICAL SURVEY OF IRELAND.

Office in Ireland : 14 Hume Street, Dublin. *Director* : Prof. Greene.

The Survey of Ireland was begun in 1845, though some portions of the north-east of the island had previously been officially examined, and a report upon them had been issued by the Ordnance Survey. The mapping has from the beginning been carried on mainly upon the six-inch scale, and is now completed. A few six-inch maps of the pisolitic iron-ore and coal-fields have been engraved and published. The one-inch sheets are the same size as the quarter-sheets and the New Series maps of England (price 1s. 6d. to 3s.). Horizontal Sections to the number of 37 have been published (price 5s. each), also one sheet of Vertical Sections of the Castlecomer Coal-field (price 3s. 6d.). The whole of the one-inch map of Ireland (205 sheets) has been published, with Explanatory Memoirs. The re-survey of the Drifts in the neighbourhood of Limerick is now in progress.

The following maps were issued during 1904 :—

One-inch Map (drift) of the *Belfast District*, comprising portions of Sheets 28, 29, 36, and 37, colour-printed. Price 1s. 6d.

Memoir on the Geology of the Country around Belfast, explanatory of the Belfast Drift Map. Price 3s.

SECTION V. BIOLOGY, INCLUDING MICROSCOPY AND ANTHROPOLOGY.

LONDON.

LINNEAN SOCIETY OF LONDON,

BURLINGTON HOUSE, PICCADILLY, W. (FOUNDED 1788.)

Officers.—*President:* William Abbott Herdman, D.Sc., F.R.S. *Treasurer:* Horace W. Monckton, F.G.S. *Secretaries:* Dr D. H. Scott, F.R.S., and Rev. T. R. R. Stebbing, M.A., F.R.S. *General Secretary:* B. Daydon Jackson. *Librarian:* A. W. Kappel.

Meetings.—Fortnightly, on Thursdays, at 8 P.M., from November to June inclusive. The Anniversary Meeting takes place on May 24.

Membership.—Entrance Fee, £6; Annual Subscription, £3; Life Composition, £45.

Publications in 1904–1905.—*Journal*, Botany, Vol. XXXVII., Nos. 257, 258, 6s. each; 259, 10s.; Zoology, Vol. XXIX., Nos. 190, 9s.; 191, 14s.; 192, 10s. *Transactions.*—Series 2, Botany, Vol. VI., Part 9, 7s.; 10, 14s.; 11, 4s. Vol. VII., Part 1, 5s.; 2, 3, 6s. each; Zoology, Vol. IX., Part 6, 6s.; 7, 6s.; 8, 10s.; Vol. X., Part 1, 3s.; 2, 8s.; 3, 9s. *Proceedings*, 116th Session, 1903–1904, 5s. *List of Society.*

List of Papers read from November 1904 to June 1905.

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| <i>Baker, E. G., S. Moore, and A. B. Rendle.</i> —The Botany of the Anglo-German Uganda Boundary Commission. Feb. 16. | of Aquatic Monocotyledons. Apr. 6. |
| <i>Baker, J. G.</i> —A Revised Classification of Roses. Feb. 16. | <i>Hansen, Dr H. J.</i> —Revision of the European Marine forms of <i>Cirri-laninae</i> . Feb. 2. |
| <i>Brandis, Sir D.</i> —On some Remarkable Indian Undershubs. June 15. | <i>Henry, Dr A.</i> —Botanical Collecting by Modern Methods. Jan. 19. |
| —Remarks on the Longitudinal Nerves and Transverse Veins in the Leaves of Bamboos. June 15. | <i>Herdman, Prof. W. A.</i> —A Note on some Points in the Structure of the Gill of the Ceylon Pearl Oyster. Nov. 3. |
| <i>Brown, A. F.</i> —Notes on the "Sudd" Formation of the Upper Nile. Nov. 3. | <i>Holt, E. W. L., and W. M. Tattersall.</i> —Schizopoda in Biscayan Plankton. May 4. |
| <i>Brown, R. N. R.</i> —The Botany of Gough Island. Part I. May 4. Part II. June 1. | <i>Hurst, C. C.</i> —Experimental Studies in Heredity in Rabbits. Dec. 15. |
| <i>Buckton, G. B.</i> —Observations on some <i>Membracidae</i> . Nov. 17. | <i>Jackson, B. D.</i> —Notes on some Rarities from the Collections of Linnaeus. June 1. |
| <i>Fowler, Dr G. H.</i> — <i>Thaliacea</i> in Biscayan Plankton. Mar. 2. | <i>Lubbock, Rt. Hon. J., Lord Avebury.</i> —Note on the Shape of the Stems of Plants. Nov. 17. |
| <i>Gibson, Prof. R. J. H.</i> —Axillary Scales | |

- Masters, Dr M. T.**—Notes on the Genus *Widdringtonia*, Endl. June 15.
- Pelcenseer, Dr P.**—Biscayan Plankton. Part III. — Mollusca, excluding Cephalopoda. June 15.
- Prain, Lieut.-Col. D.**—*Mansonieæ*: a New Tribe of the Natural Order *Sterculiaceæ*. Apr. 6.
- Pycraft, W. P.**—Notes on a Skeleton of the Musk-Duck, *Biziura lobata*. June 15.
- Ridewood, Dr W. G.**—Cranial Osteology of the Fishes of the Families *Osteoglossidæ*, *Pantodontidæ*, and *Phractolemidae*. Jan. 19.
- Scott, Mrs D. H.**—Photographs of Plants taken by the Kammato-graph. Mar. 16.
- Stapp, Dr O.**—Contributions to the Flora of Liberia. Mar. 16.
- Stebbing, Rev. T. R. R.**—Zoological Nomenclature: International Rules and Others. Mar. 2.
- Tansley, Prof. A. G.**—The Study of Vegetation: its Present Condition and Probable Development. May 4.
- Tutcher, W. J.**—Descriptions of some New Chinese Plants. Feb. 2.
- Vallentin, R.**—Bird Life in the Falkland Islands. Mar. 16.
- Veley, Mrs, F.L.S.**—A further Contribution to the Study of *Pelomyza palustris*. Apr. 6.
- Vines, Prof. S. H.**—Proteid Digestion in Animals and Plants. Dec. 1.
- Waters, A. W.**—Bryozoa from near Cape Horn. Nov. 8.
- Wolfenden, Dr R. N.**—Biscayan Plankton. Part VI. — The Colloid Radiolaria. June 15.
- Woodhead, T. W.**—The Ecology of Woodland Plants in the Neighbourhood of Huddersfield. Dec. 15.

ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,

3 HANOVER SQUARE.

In 1843 the "Ethnological Society" was founded; in 1863 the "Anthropological Society" was founded; and in 1871 the two Societies were united as the "Anthropological Institute."

Officers.—*President*: Prof. W. Gowland, F.S.A. *Hon. Secretary*: T. A. Joyce, M.A. *Treasurer*: J. Gray, B.Sc. *Assistant Secretary*: H. S. Kingsford, M.A.

Meetings.—On Tuesdays, at 8.15 P.M., from November to June inclusive. The Anniversary Meeting takes place in January.

Membership.—No Entrance Fee; Annual Subscription, £2, 2s.; Composition Fee, £21.

Publications.—*Journal*, Vol. XXIV., 10s. per part; *Man* (a Monthly record of Anthropological Science), 1s. (10s. per annum).

*Papers read during the Session 1904–1905. Those marked * have been published in the "Journal."*

Delms-Radcliffe, Lt.-Col.—Some Tribes of the Uganda Protectorate. May 9.

Deniker, Dr J.—Les Six Races Composant la Population Actuelle de l'Europe. (The Huxley Lecture for 1904.) Oct. 6.

Dennett, R. E.—Notes on the Philology of the Bavili. Nov. 8.*

Edgell, Rev. W. H.—The Manners and Customs of the Melanesians. Mar. 14.

Haddon, E. B.—The Dog-motive in Bornean Design. Feb. 14.*

Hall, R. N.—Fort and Slave Pits at

Inyanga contrasted with the Great Zimbabwe. Apr. 4.*

Lewis, A. L.—Prehistoric Remains in West Cornwall. June 20.

Robarts, N. F.—A Recently Discovered British Camp near Wallington. June 20.

Thomas, N. W.—Group Marriage in Australia. Feb. 28.

Thurston, E.—Native Types from S.E. India. Dec. 6.

Westermarck, E.—The Magic Origin of Marriage Designs. Nov. 22.*

White, F.—The Great Zimbabwe. May 23.*

BRITISH MUSEUM (NATURAL HISTORY),

CROMWELL ROAD, S. W.

Officers.—*Director*: Prof. E. Ray Lankester, LL.D., F.R.S. *Assistant Secretary*: C. E. Fagan. Zoological Department—*Keeper (Acting)*: Prof. E. Ray Lankester, LL.D., F.R.S. *Assistant Keepers*: E. A. Smith, I.S.O.; R. Bowdler Sharpe, LL.D.; C. O. Waterhouse. Geological Department—*Keeper*: A. S. Woodward, LL.D., F.R.S. *Assistant Keeper*: F. A. Bather, M.A., D.Sc. Mineral Department—*Keeper*: L. Fletcher, M.A., F.R.S. Botanical Department—*Keeper*: George Murray, F.R.S.

The Museum is open daily, except on Good Friday, Christmas Day, and specially appointed Fast or Thanksgiving days. On week days the hours are from 10 A.M. to 4 P.M. in January, November, and December, to 4.30 in February 5 P.M. in October, 5.30 in March and September, and 6 P.M. in April to August. It is also open on Sunday afternoons. During the summer months it is open on Mondays and Saturdays up to 7 or 8 P.M., according to the season.

Publications.—*The History of the Collections contained in the Natural History Departments of the British Museum.* Vol. I. *Libraries, Botany, Geology, Minerals.* Pp. xvii. 442. 8vo, 15s. 1904. *Catalogue of the Collection of Birds' Eggs in the British Museum (Natural History).* Vol. IV. *Carinatae (Passeriformes continued).* By Eugene W. Oates and Capt. Savile G. Reid. Pp. xviii. 352. 14 coloured plates. 8vo, 30s. 1905. *Catalogue of the Lepidoptera Phalaenæ (Moths) in the British Museum.* By Sir George F. Hampson, Bart. Vol. V. *Catalogue of the Noctuidæ (Hadeninæ).* Pp. xvi. 634. 172 woodcuts. 8vo, 15s. 1905. Atlas of 18 coloured plates (lxxviii.–xcv.). 8vo, 15s. *Synonymic Catalogue of Orthoptera.* By W. F. Kirby. Vol. I. *Orthoptera Euplexoptera, Cursoria, et Gressoria. (Forficulidæ, Hemimeridæ, Blattidæ, Mantidæ, Phasmodæ).* Pp. x. 501. (With Index.) 8vo, 10s. 1904. *Illustrations of Australian Plants collected in 1770 during Captain Cook's Voyage round the World in H.M.S. "Endeavour."* By the Right Hon. Sir Joseph Banks, Bart., K.B., P.R.S., and Dr Daniel Solander, F.R.S. With Introduction and Determinations by James Britten, F.L.S. Part 3, 77 plates (pls. 244–318, 45A, and 122), with 26 pages of descriptive text, including Index to the whole work (pp. 77–102), and 3 maps. Fol. 25s. 1905.

Guide Books, etc.

Guide to the Gallery of Birds in the Department of Zoology of the British Museum (Natural History). By W. R. Ogilvie Grant. Pp. iv. 228. 24 plates and 7 illustrations in text, with index. Roy. 8vo, 2s. 6d. 1905. Part I. General Series. Pp. 149. Roy. 8vo, 6d. 1905. *Guide to the Shell and Starfish Galleries (Mollusca, Polyzoa, Brachiopoda, Tunicata, Echinodermata, and Worms) in the Department of Zoology, British Museum (Natural History).* New edition. Pp. iv. 129. 125 woodcuts, plan, and indexes. 8vo, 6d. 1905. *A Guide to the Fossil Mammals and Birds in the Department of Geology and Palæontology in the British Museum (Natural History).* 8th edition. By A. S. Woodward, LL.D., F.R.S. Pp. xvi. 100. 6 plates, 88 woodcuts, with list of illustrations, table of Stratified Rocks, and index. 8vo, 6d. 1904. *How to Collect Mosquitoes (Culicidæ).* Pp. 8. 1 plate, 1 figure in text. 3rd edition. 8vo, 3d. 1904. *Blood-sucking Flies, Ticks, etc., and How to Collect them.* By E. E. Austen. Pp. 21. 13 figures in text. 8vo, 4d. 1904.

ZOOLOGICAL SOCIETY OF LONDON,

3 HANOVER SQUARE, W. (FOUNDED 1826; INCORPORATED 1829.)

Officers.—*President*: The Duke of Bedford. *Secretary*: P. Chalmers Mitchell, M.A., D.Sc. *Treasurer*: Charles Drummond. *Prosecutor*: Frank E. Beddard, M.A., F.R.S. *Superintendent of Gardens*: R. I. Pocock. *Librarian*: F. H. Waterhouse.

Meetings.—From November to June inclusive. The Anniversary Meeting takes place in April.

Membership.—Entrance Fee, £5; Annual Subscription, £3; Life Composition, £85.

Publications.—*Proceedings*, four parts in the year. 12s. per part. *Annual Report—Zoological Record*. 40s. *Transactions*, containing the following paper: *A Monograph of the Fishes of the Family Loricariidæ*. By C. Tate Regan. 30s. (October.)

List of Papers published in the Volumes of the "Proceedings" for 1904.

- Andrews, C. W.*, D.Sc.—On the Pelvis and Hind-limb of *Mullerornis betsilei*, M.-Edw. and Grand.; with a Note on the Occurrence of a Ratite Bird in the Upper Eocene Beds of the Fayum, Egypt. Jan. 19.
- Beddard, F. E.*, F.R.S.—Note on the Brains of the Potto (*Perodicticus potto*), and the Slow Loris (*Nycticebus tardigradus*), with some Observations upon the Arteries of the Brain in certain Primates. Jan. 19.
- On the Arteries of the Base of the Brain in certain Mammals. Feb. 2.
- Contributions to our Knowledge of the Circulatory System in the Ophidia. Feb. 16.
- Contributions to the Anatomy of the Lacertilia,—
- (1) On the Venous System in certain Lizards. Mar. 15.
- (2) On some Points in the Structure of *Tupinambis*. Apr. 19.
- (3) On some Points in the Vascular System of *Chamaeleon* and other Lizards. May 3.
- Exhibition of, and Remarks upon, a Specimen of the Lizard *Chlamydosaurus kingii* with Femoral Pores. May 17.
- Notes upon the Anatomy of certain Snakes of the Family *Boidæ*. May 17.
- Exhibition of, and Remarks upon, the Skull of a Cape Crowned Crane. June 7.
- Beddard, F. E.*, F.R.S.—Note on an apparently Abnormal Position of the "Brepheos" within the Body of a Skink (*Chalcides lineatus*). June 7.
- Contributions to the Knowledge of the Visceral Anatomy of the Pelagic Serpents *Hydrus platyurus* and *Platyurus colubrinus*. June 7.
- On the Presence of a Parasternum in the Lacertilian Genus *Tiliqua*, and on the Poststernal Ribs in that Genus. June 7.
- Note on the Voice of a Young Kangaroo. Nov. 15.
- Benham, W. B.*, D.Sc.—On some Edible and other New Species of Earthworms from the North Island of New Zealand. Nov. 15.
- Blanford, W. T.*, LL.D.—Descriptions of Indian and Burmese Land-Shells referred to the Genera *Macrochlamys*, *Bensonina*, *Taphrospira* (gen. nov.) *Microcystina*, *Euplecta*, and *Polita*. Dec. 13.
- Bonhote, J. L.*, M.A.—On the Mouse-Hares of the Genus *Ochotona*. Nov. 15.
- Boulenger, G. A.*, F.R.S.—Descriptions of Three New Fishes Discovered by the late Mr J. S. Budgett in the Niger. Feb. 2.
- On the Type Specimen of a West African Fish, *Clarias laviceps*, Gill. Feb. 2.
- Exhibition of, and Remarks upon, a Paddle of a New Species of Ichthyosaur. Mar. 15.

ZOOLOGICAL SOCIETY OF LONDON—continued.

- Boulenger, G. A.**, F.R.S. — On the Characters and Affinities of the Triassic Reptile *Tetrapeton elginense*. Apr. 19.
- Description of a New Tree-Frog of the Genus *Hyla*, from British Guiana, carrying Eggs on the Back. May 17.
- On the *Lacerta depressa* of Camerano. Nov. 29.
- Brady, G. S.**, D.Sc., F.R.S. — On Entomostraca collected in Natal by Mr James Gibson. May 17.
- Broom, R.**, B.Sc. — On the Structure of the Theriodont Mandible, and on its Mode of Articulation with the Skull. Apr. 19.
- Butler, A. G.**, Ph.D., F.L.S. — On Seasonal Phases in Butterflies. June 7.
- Calman, Dr W. T.** — Exhibition of, and Remarks upon, a Blind Crustacean (*Munidopsis polymorpha*) from the Island of Lanzarote. Canaries. May 17.
- Crashaw, Capt. R.** — The Prey of the Lion. June 7.
- Some Observations on the Field Natural History of the Lion. Nov. 29.
- Crossland, C.**, B.A., B.Sc. — The Polychæta of the Maldive Archipelago from the Collections made by J. Stanley Gardiner in 1899. Feb. 16.
- The Marine Fauna of Zanzibar and British East Africa, from Collections made by Cyril Crossland in the Years 1901 and 1902. — The Polychæta. Part III. With which is Incorporated the Account of Stanley Gardiner's Collection made in the Maldive Archipelago in the Year 1899. Feb. 16.
- Darling, J. F.** — Exhibition of some Photographs of, and Remarks upon, a Large Specimen of the Woolly Monkey. Mar. 1.
- Drewitt, Dr F. D.** — Exhibition of, and Remarks upon, some Antlers of the North-African Red Deer. June 7.
- Druce, H.**, F.L.S. — Descriptions of some New Species of Butterflies belonging to the Family *Erycinidæ* from Tropical South America. Apr. 19.
- Eliot, Sir C.**, K.C.M.G. — On some Nudibranchs from East Africa and Zanzibar. Parts IV., V., and VI. *Dorididæ cryptobranchiata*, II. Mar. 1, May 17, Nov. 29.
- Ewart, Prof. J. C.**, F.R.S. — Exhibition of Skins and Description of a New Species of Zebra from East Africa. Nov. 15.
- Farocett, Lieut.-Col. J. M.** — On some New and Little-known Butterflies, mainly from High Elevations in the N.E. Himalayas. June 7.
- Gillett, F.** — Exhibition of, and Remarks upon, some Antlers of the Altai Stag, Shed in the Society's Menagerie. Nov. 15.
- Goeldi, Dr E. A.** — On the Rare Rodent *Dinomys branickii*, Peters. June 7.
- Günther, Dr A.**, F.R.S. — Exhibition of, and Remarks upon, Specimens of Hybrids between a Reeves' and a Silver Pheasant. Mar. 1.
- Exhibition of, on behalf of the President, and Remarks upon, a Series of Mounted Specimens of Hybrid Pheasants. June 7.
- Gurney, R.**, B.A. — On a Small Collection of Freshwater Entomostraca from South Africa. Nov. 29.
- Hansen, H. J.**, Ph.D. — On the Morphology and Classification of the *Asellota*-Group of Crustaceans, with Descriptions of the Genus *Stenotrium*, Hasw., and its Species. Nov. 29.
- Holding, R. E.** — Exhibition of Photographs of, and Remarks upon, the Antlers of the Wapiti in Various Stages of Growth. June 7.
- Imms, A. D.** — Notes on the Gill-rakers of the Spoonbill Sturgeon, *Polyodon spathula*. May 3.
- Jacoby, M.**, F.E.S. — Another Contribution to the Knowledge of African Phytophagous Coleoptera. Feb. 16.
- Descriptions of Thirty-two New Species of *Halticinae* (Phytophagous Coleoptera) from South and Central America. Dec. 13.
- Johnston, Sir H.**, K.C.M.G., K.C.B. — Letter from the late Mr W. G. Doggett concerning the Okapi and a Supposed Unknown Large Species of Central African Antelope. Feb. 16.
- Kidd, Dr W.** — On Proposed Additions to the Accepted Systematic Characters of certain Mammals. Jan. 19.
- Note on the Arrangement of the Hair on the Nasal Region of *Eluopus melanoleucus*. Mar. 1.
- Exhibition of a Drawing of, and Remarks upon, the Extensor Surface of the Hand of a Chimpanzee. Nov. 29.

ZOOLOGICAL SOCIETY OF LONDON—*continued*.

- Lathy, P. J., F.E.S.*—A Contribution towards the Knowledge of the Lepidoptera - Rhopalocera of Dominica, B.W.I. Mar. 15.
- Leiper, R. T.*—On the Turbellarian Worm *Asagina incola*, with a Note on the Classification of the *Proporidae*. Mar. 1.
- Lönnberg, Dr E.*—On Two Specimens of "Riporre," with Known Parentage. Mar. 1.
- Lydekker, R.*—On the Subspecies of *Giraffa camelopardalis*. Feb. 2.
- Note on the Skull and Markings of the Quagga. Mar. 15.
- Note on the Wild Ass of Mongolia. Mar. 15.
- On a Buffalo-Skull from East Central Africa. June 7.
- The Ichang Tufted Deer. June 7.
- Note on a Sketch of a Deer from Hainan. Nov. 15.
- On Old Pictures of Giraffes and Zebras. Nov. 29.
- On Two Lorises. Nov. 29.
- Major, Dr C. I. F.*—Exhibition of, and Remarks upon, some Dental Peculiarities in Mammals. Mar. 15.
- Exhibition of, and Remarks upon, some Remains of *Anthracotherium* from Majorca. Apr. 19.
- Marshall, G. A. K.*—A Monograph of the Coleoptera of the Genus *Hipporrhinus*, Schh. Jan. 19.
- Millais, J. G.*—Exhibition of, and Remarks upon, Pelages of the Grey Seal in Various Stages of Growth. Mar. 1.
- Minchin, E. A.*—The Characters and Synonymy of the British Species of Sponges of the Genus *Leucosolenia*. Dec. 13.
- Mitchell, P. C., M.A., D.Sc.*—Exhibition of, and Remarks upon, Skins of the Transvaal Bustard, *Trachelotis barrovii*. Jan. 19.
- Note on Two Specimens of the Orang-utan. June 7.
- On the Species of Crowned Cranes. Nov. 15.
- Reports on the Additions to the Society's Menagerie from November 1903 to December 1904, inclusive.
- Pocock, R. I.*—Description of a New Species of Spot-Nosed Monkey of the Genus *Cercopithecus*. Mar. 15.
- Exhibition of, and Remarks upon, Living Hairless Specimens of the House-Mouse and Brown Rat. June 7.
- Pocock, R. I.*—Exhibition of, and Remarks upon, Young Examples of the Egyptian Fat-Tailed Gerbille. June 7.
- Renshaw, Dr G.*—Exhibition of Photographs of, and Remarks upon, a Pair of Short-Horned Buffaloes in the Antwerp Zoological Gardens. June 7.
- Riderwood, W. G., D.Sc., F.L.S.*—Some Observations on the Skull of the Giraffe. Jan. 19.
- On the Cranial Osteology of the Fishes of the Families *Elopidæ* and *Albulidæ*, with Remarks on the Morphology of the Skull in the Lower Teleostean Fishes generally. May 3.
- On the Cranial Osteology of the Clupeoid Fishes. Dec. 13.
- Rothschild, Hon. W., D.Sc.*—Description of a New Antelope. Feb. 16.
- Notes on Anthropoid Apes. Dec. 13.
- Satunin, C.*—The Black Wild Cat of Transcaucasia. June 7.
- Slater, Dr P. L., F.R.S.*—Note on the Specimens of the Okapi in the Congo Free State Museum. Nov. 15.
- Thomas, O., F.R.S.*—Exhibition of a Skin and Skull and Description of a New Subspecies of Gazelle, *Gazella soemmerringii butleri*. Jan. 19.
- Exhibition of, and Remarks upon, a Skull of a New Form of Buffalo from Uganda. Mar. 1.
- Exhibition of a Skin and Description of a New Species of Fruit-Bat, from Fernando Po. Mar. 1.
- Exhibition of a Skin and Description of a New Subspecies of Hartebeest from Uganda. Apr. 19.
- On the Osteology and Systematic Position of the Rare Malagasy Bat, *Myzopoda aurita*. May 3.
- On Mammals from the Island of Fernando Po, Collected by Mr E. Seimund. Nov. 15.
- On *Hylochaerus*, the Forest-Pig of Central Africa. Nov. 15.
- Exhibition of Specimens and Description of a New Gazelle from Palestine. Dec. 13.
- and *H. Schwann*.—On a Collection of Mammals from British Namaqualand, presented to the National Museum by Mr C. D. Rudd. Feb. 2.

ZOOLOGICAL SOCIETY OF LONDON—*continued*.

- Thomas, O.*, F.R.S., and *H. Schwann*.—On Mammals Collected during the Uganda Boundary Commission by the late Mr W. G. Doggett, and Presented to the British Museum by Col. C. Delmé-Radcliffe. Apr. 19.
- Woodward, A. S.*, LL.D., F.R.S.—On Two New Labyrinthodont Skulls of the Genera *Capitosaurus* and *Aphaneramma*. June 7.
- Yearsley, M'L.*—Exhibition of, and Remarks upon, Specimens of Aneurysms in the Jaguar and a Turtle. Jan. 19.

ROYAL BOTANIC SOCIETY OF LONDON,

ROYAL BOTANIC GARDENS, REGENT'S PARK.

(INCORPORATED 1839 BY ROYAL CHARTER.)

Officers.—*President*: H.S.H. the Duke of Teck. *Secretary*: J. B. Sowerby, F.L.S., Royal Botanic Gardens, Regent's Park.

Meetings.—On the fourth Friday in each month at 4.45 P.M. The Anniversary Meeting takes place 10th August, at 1 o'clock.

Membership.—Entrance Fee, £5, 5s.; Annual Subscription, £2, 2s.; Life Composition, 25 Guineas.

Publication.—*Quarterly Record*, 6d. per issue.

List of Papers read during Session 1904–1905.

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| <p><i>Bozall, Dr R.</i>—Seeds Collected in the West Indies, and their Use as Ornaments, etc.</p> | <p><i>Brown, Dr T. B.</i>, C.I.E.—Herbals and Herbaria.</p> <p><i>Christy, T.</i>, F.L.S.—On Grass Rubber.</p> |
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THE BOTANICAL EXCHANGE CLUB OF THE
BRITISH ISLES.

Officer.—*Hon. Secretary and Treasurer*: George Claridge Druce, M.A., F.L.S., 118 High Street, Oxford.

Membership.—No Entrance Fee; Annual Subscription, 7s. 6d.

Publication.—Report for 1904, edited by J. Groves, F.L.S. Price 2s.

THE MARINE BIOLOGICAL ASSOCIATION OF
THE UNITED KINGDOM,

THE LABORATORY, CITADEL HILL, PLYMOUTH; and THE
LABORATORY, WAVENEY ROAD, LOWESTOFT.

(FOUNDED MARCH 31, 1884.)

Officers.—*President*: Prof. E. Ray Lankester, LL.D., F.R.S. *Director and Secretary to Council*: E. J. Allen, D.Sc., The Laboratory, Citadel Hill. *Naturalist*: W. Garstang, M.A.

Meetings.—The Anniversary Meeting takes place in June. Council Meetings Quarterly.

Membership.—Annual Subscription, £1, 1s.; Composition Fee, £15, 15s.

Publication.—*Journal of the Marine Biological Association*, Vol. VII., No. 2, (December 1904). 3s. 6d.

No. 2 contains:—Plymouth Marine Invertebrate Fauna. Being Notes of the Local Distribution of Species occurring in the neighbourhood. Compiled from the Records of the Laboratory of the Marine Biological Association.

Allen, S. J.—*Pallasia murata*, n.sp.: a New British Sabellarian.

Pace, S.—Notes on Two Species of *Cucumaria* from Plymouth, hither-

to confused as *C. Montagu* (Fleming), *C. Normani*, n.sp., and *C. Saxicola* (Brady and Robertson).

ENTOMOLOGICAL SOCIETY OF LONDON,

11 CHANDOS STREET, CAVENDISH SQUARE, W.

(FOUNDED 1833; INCORPORATED BY ROYAL CHARTER 1885.)

Officers.—*President*: (Vacant.)

Hon.

Secretaries: H. Rowland-Brown, M.A.; J. J. Walter, M.A., F.L.S.

Meetings.—First and third Wednesday from October to June, at 8 P.M. The Annual Meeting is held in January.

Membership.—Entrance Fee, £2, 2s.; Annual Subscription, £1, 1s.; Life Composition, £15, 15s.

Papers read during Session 1904–1905, and published in “Transactions,” 1904, Part II. (10s.), Part III. (17s.), Part IV. (6s.), Part V. (4s. 6d.); and 1905, Part I. (13s. 6d.), to be had at the Society’s Rooms, and of Messrs Longmans & Co., Paternoster Row.

Annandale, N. M., B.A.—The Egg and Early Stages of a *Coreid* Bug, probably *Dalader acuticosta*, Amyot et Serv., with a Note on its Hymenopterous Parasite. Nov. 16.

Champion, G. C., F.Z.S., and *T. A. Chapman*, M.D., F.Z.S.—Another Entomological Excursion to Spain, with Descriptions of Two New Species of *Hemiptera*, by Prof. O. M. Reuter. Feb. 1.

Chapman, T. A., M.D., F.Z.S.—On *Erebia palarica*, n.sp., and *E. stygne*, chiefly in Regard to its Association with *E. ciras* in Spain. Dec. 7.

—On the Matrivorous Habit of the Species of *Heterogynis*, Rambur. Feb. 1.

Distant, W. L., F.E.S.—Additions to a Knowledge of the Homopterous Family *Cicadidae*. Mar. 1.

Godman, F. Du C., D.C.L., F.R.S., etc.—Descriptions of some New Species of *Satyridæ* from South America. Mar. 1.

Kershaw, J. C. W., F.L.S., F.E.S.—The Life History of *Gerydus chinensis*, Felder. Nov. 16.

—Butterfly-Destroyers in Southern China. Nov. 16.

Longstaff, G. B., M.D.Oxon.—Notes on the Butterflies Observed on a Tour in India and Ceylon, 1903–4. Dec. 7.

Sharp, D., M.A., F.R.S., and *F. G. Smith*.—The Genus *Criocephalus*, with Notes on the Habits of *Asemum striatum* and *Criocephalus* Ferns. Feb. 1.

MALACOLOGICAL SOCIETY OF LONDON,

LINNEAN SOCIETY, BURLINGTON HOUSE.

(Founded 1893; place of meeting by permission of Council of Linnean Society.)

Officers.—*President*: E. R. Sykes, B.A. *Hon. Secretary*: R. H. Burne, B.A.,
21 Stanley Crescent, Notting Hill, W.

Meetings.—Second Friday in each month, November to June, at 8 P.M.
Anniversary Meeting in February.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription: for Ordinary
Members, 10s. 6d.; Corresponding Members, 7s. 6d.

Publication.—*Proceedings*, Vol. VI. Parts 3, 4, and 5. Price 5s. per part.

*List of Papers read during Session 1904–1905. Those marked * are
already published in the "Proceedings," 5s. each number, edited
by B. B. Woodward (Dulau & Co.).*

Barnes, R. G.—Note on a Dart found
in the Body Cavity of *Helix aspersa*.
Mar. 10.*

Bloomer, H. H.—The Anatomy of
certain Species of *Siliqua* and
Ensis. Nov. 11.*

Bridgman, F. G.—Note on *Oliva tigris*-
della, Duclos. Nov. 11.*
— Note on *Oliva oryza*, Lam. Jan.
13.*

Bullen, Rev. R. A.—On a New Variety
of *Planispira zebra* from Gisser
Island, and a New Species of
Chlorotis from Java. Nov.
11.*

— Note on *Helix pellita*, Fér.,
and other Shells from the Pleisto-
cene Cave-Deposits of East Crete.
May 12.

— Note on (1) recent Spanish Shells
from Granada and Carmona; (2)
Neolithic and other Burials on
the Alcores, Province of Seville;
(3) Roman Tombs, Carmona.
May 12.

Burnup, H.—Descriptions of Six New
Species of Land Shells from South
Africa. Apr. 14.*

Chandler, R. H.—Note on some
Holocene Non-Marine Mollusca
from Walton Heath, Surrey. Jan.
13.*

Crick, G. C.—On a Dibranchiate
Cephalopod from the Eocene of
Arabia. Mar. 10.*

— Note on the Horizon and Locality
of the Type Specimen of *Pleuromatilis pulcher*. Mar. 10.*

Dall, W. H.—An Arrangement of
the American *Cyclostomatidae*, with
a Revision of the Nomenclature.
Dec. 9.

Eliot, Sir C., K.C.M.G.—Note on
Geitodoris planata. Jan. 13.*

— Some Nudibranchs from the
Pacific, including a New Genus,
Chromodoridella. Jan. 13.*

— Notes on Two Rare British Nudi-
branchs *Hero formosa*, var. *arborescens*
and *Staurodoris maculata*.
Jan. 13.*

Godwin-Austen, Lt.-Col. H. H., F.R.S.
—On the Extension of the Genus
Macrochlamys to the Island of
Mauritius. June 16.

Gude, G. K.—On the Occurrence of
Internal Septa in *Glyptostoma*
newberryanum. Mar. 10.*

Hering, H. von.—On the Genus *Tomi-*
gerus, Spix, with Descriptions of
New Species. Nov. 11.*

Jukes-Browne, A. J., B.A.—A Review
of the Genera of the Family *Mytili-*
dæ. Jan. 13.*

Kennard, A. S., and **B. B. Woodward**.
—On the Occurrence of *Planorbis*
vorticulus, Troschel, in the
Pleistocene of England. June 16.

Newton, R. B.—On Two Miocene
Gastropods from Roumania. June
16.

Pilsbry, H. A.—Anatomical and
Systematic Notes on *Dorcasia*,
Trigonophorus, *Corilla*, *Thersites*,
and *Chloritis*. Apr. 14.*

Preston, H. B.—Description of a New
Species of *Trachioopsis* from British
New Guinea. Dec. 9.*

— Description of a New *Achatina*
from the Zambesi. Jan. 13.*

— Notes on a Small Collection of
Shells from the Victoria Falls,
Zambesi River, with Descriptions
of New Species. Apr. 14.*

- Reynell, A.*—Some Account of the Anatomy of *Cassidaria rugosa*, L. Apr. 14.*
- Sherborn, C. D.*—The Conchological Writings of Capt. Thomas Brown. June 16.
- Smith, E. A.*, I.S.O.—Descriptions of Three New Species of *Opisthostoma* from Sarawak, North Borneo. Nov. 11.*
- Note on Mr Suter's Paper on Species of *Chione* from New Zealand. Nov. 11.*
- A Correction in Nomenclature. Dec. 9.*
- Description of a New Species of *Vitrea* from Greece. May 12.
- On a Small Collection of Mollusca from Tierra del Fuego. June 16.
- Sowerby, G. B.*—New Marine Mollusca from the Collection of the late Admiral Keppel. Mar. 10.*
- Suter, H.*—Notes on some New Zealand *Pleurotomidæ*. Nov. 11.*
- Suter, H.*—Notes on some Species of *Chione*, from New Zealand. Nov. 11.*
- Revision of the New Zealand *Patellidæ*, with Descriptions of a New Species and Subspecies. June 16.
- Sykes, E. R.*, B.A.—Note on the Type of *Geomelania*, with the Description of a New Species. Jan. 13.*
- On Three Species of *Dyakia* from Sumatra. Jan. 13.*
- Variation in recent Mollusca. (Presidential Address.) Feb. 10.*
- Descriptions of New Forms of *Marginellidæ* and *Pleurotomidæ*. May 12.
- Mollusca of the Porcupine Expeditions. Supplemental Notes, Part II. June 16.
- Taylor, J. W.*—Note on the Dates of Publication of the various parts of Moquin-Tandon's "Hist. Moll. terr. fluv. de France." Dec. 9.*

ROYAL MICROSCOPICAL SOCIETY,

20 HANOVER SQUARE, W.

(FOUNDED 1839 ; INCORPORATED 1866.)

Patron.—H.M. THE KING.

Officers.—*President*: Dukinfield H. Scott, M.A., Ph.D., F.R.S., F.L.S. *Hon. Secretaries*: Rev. W. H. Dallinger, LL.D., F.R.S.; R. G. Hebb, M.A., M.D., F.R.C.P. *Assistant Secretary*: F. A. Parsons.

Meetings.—Third Wednesday in each month, from October to June, at 8 P.M. The Annual Meeting will take place on January 17, 1906.

Membership.—Entrance Fee, Two Guineas ; Annual Subscription, Two Guineas, or £1, 11s. 6d. for members residing abroad ; Life Composition, £31, 10s.

*List of Papers read during Session 1904–1905. Those marked * have been published in the "Journal," price 6s. per part (every two months).*

Conrady, A. E., F.R.A.S.—Theories of Microscopical Vision : a Vindication of the Abbe Theory. Nov. 16.*

—An Experimental Proof of Phase-Reversal in Diffraction Spectra. Dec. 21.*

—On the Application of the Undulatory Theory to Optical Problems. Apr. 19.

—Theories of Microscopical Vision (Second Paper). June 21.

Finlayson, D., F.L.S.—The Asha-Finlayson Comparascope. Feb. 15.

Gordon, J. W.—The Theory of Highly Magnified Images. Dec. 21.*

Ives, E.—On the Use of the Esculin Screen in Photomicrography. Dec. 21.*

Jackson, D. D.—The Movements of Diatoms and other Microscopic Plants. May 17.

- Millett, F. W.*—Report on the Recent Foraminifera of the Malay Archipelago, collected by Mr A. Durand, F.R.M.S. Oct. 19.*
- Nelson, E. M.*—The Tubercle Bacillus. June 21.
- Rheinberg, J.*—On the Influence on Images of Gratings of Phase-Difference among their Spectra. June 15.*
- The Influence on Images of Gratings of Phase-Differences amongst their Spectra. Dec. 2.*
- Scott, Dr D. H., F.R.S., F.L.S.*—Presidential Address—What were the Carboniferous Ferns? Jan. 18.*
- Stead, J. E., F.R.S., F.C.S.*—Micro-Metallography, with Practical Demonstration. Feb. 15.*
- Methods for Detecting the more Highly Phosphorised Portions in Iron and Steel. Mar. 15.*

ANATOMICAL SOCIETY OF GREAT BRITAIN AND IRELAND. (FOUNDED 1887.)

Officers.—*President*: J. Symington, M.D., F.R.S. *Hon. Secretary*: Christopher Addison, M.D., Charing Cross Hospital, London, W.C.

Meetings.—Quarterly, at the Anatomical Departments of Universities and Medical Schools in the United Kingdom, in turn. The Annual Meeting takes place in November.

Membership.—No Entrance Fee; Annual Subscription, 10s. 8d.

List of Principal Papers read from November 1904 to July 1905, and mostly published in the "Journal of Anatomy," 6s. quarterly (Griffin & Co.). "Proceedings" issued to Members.

- Ashdowne, W.*—The Flexors and Extensors of the Hand.
- Bonney, V., and G. Taylor.*—The Morphology of the Popliteus.
- Crawford, D.*—Absence of Corpus Callosum.
- Fawcett, E.*—Ossification of the Pterygoid Plates.
- and *J. W. Blackford.*—Abnormalities of the Circle of Willis.
- Gladstone, R. G.*—Acardiac Fetus.
- Harris, W.*—The Brachial Plexus in Anthropoid Apes.
- Jenkins, G. J.*—The Determination of Brain Surface Marking.
- Keith, A.*—The Origin and Morphology of the Diaphragm.
- Abnormalities of the Heart, especially of the Right Ventricle.
- Kidd, W.*—The Imbrication of the Papillary Ridges on the Hand Digits of Man.
- Low, A.*—The Development of the Lower Jaw.
- Miller, J.*—The Elastic Tissue of the Lung.
- Parsons, F. G.*—The Articular Epiphyses of Long Bones.
- Poole, F. S.*—Record of Craniometric Measurements.
- Scott, S.*—A New Method of Teaching the Topographical Anatomy of the Skull.
- Wright, W.*—The Fibula: its Adaptation to the Erect Position.
- Young, A. H.*—The Morphology of the Lumbar Arteries.

POSTAL MICROSCOPICAL SOCIETY.

(FOUNDED 1873.)

Officers.—*President*: Sir Thomas Wardle. *Hon. Secretary*: Miss Florence Phillips, Hafod Eurnyn, Colwyn Bay, N. Wales.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 5s. for Members contributing Slides, 10s. for Members not contributing Slides.

QUEKETT MICROSCOPICAL CLUB,

20 HANOVER SQUARE, W. (FOUNDED 1865.)

Officers.—*President*: Dr E. J. Spitta, F.R.A.S., F.R.M.S. *Hon. Secretary*: Arthur Earland, 31 Denmark Street, Watford, Herts.

Meetings.—On first and third Fridays in each month, at 7 P.M. The Annual General Meeting takes place in February.

Membership.—No Entrance Fee; Annual Subscription, 10s.; Life Composition, £10.

Publication.—*Journal*, published in April and November, price 3s. 6d. to Non-members.

List of Papers read from October 1904 to June 1905.

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| <i>Earland, A.</i> —The Foraminifera of Bognor, Sussex. May 19. | <i>Rousset, C. F.</i> , F.R.M.S.—A Description of the Rousset Compressor. Jan. 20. |
| <i>Merlin, A. A. C. E.</i> , F.R.M.S.—Supplementary Note on the Foot of the House Fly. Nov. 18. | <i>Scourfield, D. J.</i> , F.R.M.S.—Fresh Water Biological Stations. Dec. 16. |
| —Note on a Modification of the Rousset Live Box. Nov. 18. | <i>Smith, F. P.</i> —The Spiders of the <i>Erigone</i> Group. Oct. 21. |
| —Note on the Cut Suctorial Tubes of the Drone Fly's Proboscis as a Test Object. Jan. 20. | <i>Spitta, E. J.</i> , F.R.A.S., F.R.M.S.—The Improvements in Modern Objectives for the Microscope popularly Explained. Feb. 17. |
| <i>Rheinberg, J.</i> , F.R.M.S.—On the Collected Papers of Abbe and Microscopic Theory in Germany. Mar. 17. | <i>Wesche, W.</i> , F.R.M.S.—On the Genitalia of <i>Glossina palpalis</i> . June 16. |
| —Note on the Abbe Experiments. Mar. 17. | |

RAY SOCIETY.

(Founded in 1844, for the Publication of Works on British Natural History.)

Officers.—*President*: The Right Hon. Lord Avebury, D.C.L., F.R.S. *Hon. Secretary*: John Hopkinson, F.L.S., F.G.S., F.R.M.S., Weetwood, Watford.

Meetings.—Council Meetings on Thursdays at 4 P.M. The Anniversary Meeting took place in May 1905.

Membership.—Annual Subscription, One Guinea.

Publications.—*The British Desmidiaceæ*, by W. West, F.L.S., and Prof. G. S. West, M.A., F.L.S. Vol. I., with 32 plates. Price 25s. net; to Subscribers for 1905, 21s. *The British Tunicata*, by the late J. Alder and the late A. Hancock, F.L.S. Vol. I., with 20 plates and 24 text illustrations. Price 12s. 6d. net; to Subscribers for 1905, 10s. 6d. *The British Freshwater Rhizopoda and Heliozoa*, by James Cash. Vol. I., 16 plates and 25 text illustrations. Price, on publication, 12s. 6d. net. (In the press.) *The British Desmidiaceæ*. Vol. II., with 32 plates. Price, on publication, 25s. net. (In preparation.)

SELBORNE SOCIETY,

20 HANOVER SQUARE, W.

Officers.—*President*: Lord Avebury, F.R.S. *Secretary*: Wilfred M. Webb, F.L.S., 20 Hanover Square, W.

Meetings.—Executive Council fourth Monday in each month, at 5.30 P.M. Field Club every Saturday in Summer, alternate Saturday in Winter. Anniversary Meeting takes place in May.

Membership.—Minimum Subscription 5s., which entitles Members to receive *Nature Notes* and *Annual Report*.

Publication.—*Nature Notes*, price 2d. monthly (Bale).

List of Papers read during Session 1904–1905. Papers read before Local Sections are marked as follows:—Ba, Bath; Bi, Birmingham; Br, Brighton; Cl, Clapton; H, Hampstead; Ha, Haileybury; N.M., North Middlesex.

- Aikin, Dr.*—The Machinery of the Voice. Feb. 8. Ha.
Allnutt, C. E.—Some Religious Monuments in North Brittany. Nov. 19. Cl.
Austin, S.—Architectural Paper. Feb. 18. Cl.
Avebury, Lord, F.R.S.—The Love of Nature. May 3.
 — The Flight of Birds. June 20. Ha.
Bevan, P.—Japan. Nov. 7. Ha.
Bond, B., F.R.I.B.A.—Rood Screens. Feb. Ba.
Boulger, Prof. G. S., F.L.S.—Forest Trees. Oct. 20. H.
 — The Life and Work of Gilbert White. Dec. 2. N.M.
Bridge, Prof., F.R.S.—How Fishes Talk. Mar. Bi.
Brooks, G.—Popular Entomology. Nov. 25. N.M.
 — Popular Errors in Entomology, especially Lepidoptera. Feb. 3. N.M.
Brown, Dr M., F.R.C.S.—Our Unseen Foes. Mar. 22. H.
Durrant, Mrs.—Plant Lore and Legends. Dec. 17. Cl.
Enock, F., F.L.S.—The Wonders and Romance of Insect Life. Apr. 16. Br.
 — An Old London Elder Tree. May 3.
Gardiner, S. J.—The Thousand Isles. Mar. 21. Ha.
Green, M., A.R.I.B.A.—Work of the Woods in Bath. Mar. Ba.
Grint, J. C. M.—Life in an Aquarium. Feb. 24. N.M.
Hall, C. M., M.M.S.—An Introduction to the Study of Fish. Aug. 5. N.M.
Hall, C. M., M.M.S.—Ichthyology. Oct. 12. N.M.
 — Freshwater Mollusca. Mar. 17. N.M.
Hill, M. D., M.A., F.Z.S.—Game Birds and their Enemies. May 30. Ha.
Knight, H. F.—The Motor Car. Sept. 26. Ha.
Maclean, I. C.—The Machinery of the Animal Body. Nov. 28. Ha.
Maunder, E. W., F.R.A.S.—The Sun and Sunspots. Nov. 21. H.
Nash, E. A.—Some Legendary Explanations of Natural Markings in Living Nature. Jan. 21. Cl.
Philpott, Miss A. S.—Snail Shells. Oct. 15. Cl.
Pike, O. G.—In Bird Land with a Camera. Jan. 16. H.
 — Some Bird Land Comedies. May 3.
Seton, E. T.—Wild Animals I have Known. Nov. 16. Bi.
Thompson, G.—British White Butterflies. Aug. 19. N.M.
Vaughan, M.—The Snipe and Woodcock. Feb. 29. Ha.
Wade, W. J.—Electricity and Animal Magnetism. Jan. 6. N.M.
Watkins, F. E.—British Freshwater Fishes. Jan. 20. N.M.
Westell, W. P., F.R.H.S.—A Feathered Philistine Caught in the Act. May 3.
Whitaker, W., B.A., F.R.S.—The Hammerer and the Camera. Feb. 6. H.
Williams, Dr.—Food and Feeding. July 16. Ha.
Wilson, Mrs D.—Pompeii. Dec. 12. H.

**ACTON NATURAL HISTORY SOCIETY,
CHURCHFIELD HALL, CHURCHFIELD ROAD.**

Officers.—*President*: W. H. Jackson. *Hon. Secretary*: R. A. R. Priske,
66 Chaucer Road.

Meetings.—First Monday in the month, at 8 P.M. Anniversary Meeting is
in February.

Membership.—Annual Subscription, 2s. 6d.

**EALING SCIENTIFIC AND MICROSCOPICAL
SOCIETY,**

THE PUBLIC BUILDINGS, EALING, W.

Officers.—*President*: W. D. Butcher, M.R.C.S. *Hon. Secretary*:
F. M'Neil Rushforth, 133 The Grove, Ealing, W.

Meetings.—Second and last Saturdays in each month, from October to May
inclusive. The Anniversary Meeting takes place in May.

Membership.—No Entrance Fee; Annual Subscription, 10s.

Publication.—*Annual Report.*

*List of Papers read during Session 1904–1905, and mostly published
(P.) in the "Annual Report."*

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| <i>Andrews, Dr C. W.</i> , F.G.S.—Some Palæontological Evidences in Support of Evolution. Nov. 26. | and Dissimilarities among Birds. Jan. 14. |
| <i>Boulger, Prof. G. S.</i> , F.L.S., F.G.S.— Insectivorous Plants. Jan. 28. | <i>Read, C. S.</i> , M.D. — Hypnotism. Apr. 8. |
| <i>Hampson, Dr W.</i> , M.A.Oxon.—Arti- ficial Cooling and Liquid Air. Nov. 12. | <i>Sommerville, D.</i> , M.D.—Some Observa- tions on Bacteria related to Sewage. Apr. 29. |
| <i>Henslow, Rev. G.</i> , M.A., F.L.S.—Geo- graphical Botany by Adaptation. Oct. 29. | <i>Swain, W. H.</i> , B.A., B.Sc.—Early Ideas in Geology. Mar. 25. |
| <i>Offord, J. M.</i> , F.R.M.S.—Microscopic Pond Life of Ealing and the Neighbourhood. Mar. 11. | <i>Watson, J.</i> —Photography of Colour. Feb. 11. |
| <i>Pycraft, W. P.</i> , A.L.S.—Similarities | <i>Webb, W. M.</i> , F.L.S.—Evolution of Dress. Dec. 10. |
| | <i>Woodward, B. B.</i> , F.L.S., F.G.S., F.R.M.S.—River Theft. Feb. 25. |

**CITY OF LONDON ENTOMOLOGICAL AND NATURAL
HISTORY SOCIETY.**

(Established 1858 as the Haggerston Entomological Society.)

LONDON INSTITUTION, FINSBURY CIRCUS, E.C.

Officers.—*President*: A. W. Mera. *Hon. Secretaries*: S. J. Bell, 24 Dasset
Road, W. Norwood, S.E.; E. Harris, 2 Chardmore Road, Clapton, N.E.

Meetings.—First and third Tuesdays in each month (except July and August), at 7.30 P.M. The Anniversary Meeting takes place in December.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 7s. 6d.; Life Members, £5.

Publication.—*Transactions*, 56 pp., 2s.

NORTH LONDON NATURAL HISTORY SOCIETY,

HACKNEY TECHNICAL INSTITUTE, DALSTON LANE, N.E.

Officers.—*President*: Clive B. Smith. *Secretary*: R. W. Robbins, 179 Hale End, Walthamstow.

Meetings.—Second and fourth Tuesdays in each month, at 7.45 P.M. The Annual Meeting is held in December.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 5s.; Life Composition, £2, 10s.

Publication.—*Annual Report*.

Papers read during Session 1904–1905.

Bacot, A., F.E.S. — Variation and Death in Relation to Natural Selection. Sept. 13.

Biological Research Committee (of the Society).—The Theory of Lamarck. Mar. 14.

Brown, J. W.—Glaciers. Oct. 11.

Dale, Miss E. M., B.A. — Seaside Plants. July 12.

Hall, L. B., F.L.S.—The Life of a Moss. Apr. 11.

Nicholson, C.—Bog Plants. Aug. 23.

Prout, L. B., F.E.S.—Notes on the Wave Moths (*Acidalia*). Nov. 22.

Robbins, Mrs R. W.—Plant Life in Winter and Spring. Mar. 28.

Williams, Dr J. W., F.L.S.—Sea Squirts: their Organisation and place in Nature. May 9.

SOUTH LONDON ENTOMOLOGICAL AND NATURAL HISTORY SOCIETY,

HIBERNIA CHAMBERS, LONDON BRIDGE.

Officers.—*President*: H. Main, B.Sc., F.E.S. *Hon. Secretaries*: S. Edwards, F.L.S., F.Z.S., F.E.S., 15 St German's Place, Blackheath, S.E.; H. J. Turner, F.E.S., 98 Drakefell Road, New Cross, S.E.

Meetings.—Second and fourth Thursdays in each month, at 8 P.M. The Annual Meeting is in January.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 7s. 6d. for Town Members; 5s. for Country Members.

Publication.—*Proceedings* for 1904, 2s.

Papers read during Session 1904–1905, and published in the "Proceedings."

Adkin, Harrison, Lucas, Main, and Step.—Reports of the Field Meetings. Mar. 10.

Lucas, W. J., B.A., F.E.S.—Notes on British Orthoptera. May 12.

Manger, W. T.—The *Spondyliidae* (Thorny Oysters). Apr. 14.

—The Pectens (Scallops). Nov. 10.

Sich, A., F.E.S.—Notes on the Genus *Coleophora*. Feb. 11.

Tutt, I. W., F.E.S.—Modern Requirements in Oval and Larval Description. Mar. 10.

Wood, Rev. F. H., M.A.—Notes on *Argyroneta aquatica* and other Spiders. Apr. 28.

STEPNEY FIELD CLUB,

THE PUBLIC LIBRARY, LIMEHOUSE, E. (FOUNDED 1904.)

Officers.—*President*: W. J. Barker, J.P., Mayor of Stepney. *Hon. Secretary*: G. H. Macall, Public Library, Stepney.

Meetings.—On Wednesday evenings at 8 P.M. Field Rambles on Saturdays, and at such other times as may be determined.

Membership.—Subscription, 2s. 6d.; No Entrance Fee.

[No Return.]

BRITISH ORNITHOLOGISTS' UNION,

3 HANOVER SQUARE, W.

Officers.—*President*: F. Du Cane Godman, D.C.L., F.R.S. *Hon. Secretary*: Howard Saunders.

Meetings.—The Annual Meeting takes place in April or May.

Membership.—Entrance Fee, £2; Annual Subscription, £1.

Publication.—*The Ibis*, edited by P. L. Sclater, D.Sc., F.R.S., and Arthur H. Evans, M.A., F.Z.S., and published in quarterly numbers (January, April, July, and October), price 8s. each.

Papers contributed during the year and published in "The Ibis."

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| <p><i>Bianchi, V.</i>—Key to the Palearctic Species of Larks of the Genus <i>Otocorys</i>.</p> <p><i>Blaauw, F. E.</i>—On the Breeding of some of the Waterfowl at Gooilust in the Year 1903.</p> <p><i>Buller, Sir W. L.</i>—K.C.M.G., F.R.S.—On a New Species of Owl from New Zealand.</p> <p><i>Buturlin, S. A.</i>—On the Geographical Distribution of the True Pheasants (Genus <i>Phasianus</i> sensu stricto).</p> <p><i>Clarke, Maj. S. R.</i>, F.Z.S.—Field Notes on Birds obtained or observed at Bloemfontein, O.R.C., and at Ingogo, Natal, in 1901 and 1902.</p> <p><i>Clarke, W. E.</i>, F.R.S.E., F.L.S.—Studies in Bird-Migration. II. The Results of Observations made at the Kentish Knock Lightship in the Autumn of 1903.</p> <p><i>Collier, C.</i>, F.Z.S.—The Birds of the Island of Raasay.</p> <p><i>Dresser, H. E.</i>, F.Z.S.—On some Rare or Unfigured Eggs of Palearctic Birds.</p> <p>—On the late Dr Walter's Ornithological Researches in the Taimyr Peninsula.</p> | <p><i>Evans, A. H.</i>, M.A., F.Z.S.—Field-notes on Birds from the Western Pyrenees.</p> <p><i>Frohawk, F. W.</i>, F.E.S.—On Sexual Variation in the Wing of the Lapwing (<i>Vanellus vulgaris</i>).</p> <p><i>Gladstone, H. S.</i>, M.A., F.Z.S.—Note on the Decrease in the Weight of Eggs as Incubation advances.</p> <p><i>Goeldi, Dr E.</i>—A Story about the Giant Goatsucker of Brazil (<i>Nyctibius jamaicensis</i>).</p> <p><i>Hall, R.</i>, C.M.Z.S.—The Birds of a Garden in Melbourne.</p> <p><i>Hartert, E.</i>, Ph.D., F.Z.S.—On the Birds collected by Mr Robert Hall, of Melbourne, on the Banks of the Lena River between Gikalowa and its Mouth.</p> <p>—Some Anticriticisms.</p> <p><i>Kershaw, J. C.</i>, F.Z.S.—List of the Birds of the Quangtung Coast, China.</p> <p><i>Nicoll, M. J.</i>—Ornithological Journal of a Voyage round the World in the <i>Valhalla</i>.</p> <p>—On a Collection of Birds made during the Cruise of the <i>Valhalla</i> R.Y.S., in the West Indies.</p> |
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- Ogilvie-Grant, W. R.*, F.Z.S.—On the Birds collected during a recent Expedition through Somali-Land and Abyssinia to Lake Tsana. With Field-Notes by the Collector, Mr E. Degen.
- Salvadori, Count T.*, F.M.Z.S.—The Linnæan *Motacilla stapanina* Identified and Restored to Use.
- On the *Melierax metabates* of Heuglin.
- Description of a New Species of Dove of the Genus *Haplopelia*.
- Note on *Tanyptera dea*.
- Slater, W. L.*—Saldanha Bay and its Bird-Islands.
- On the Birds of Sibthorp's "Fauna Græca."
- On a Rare Passerine Bird from New Guinea.
- Sharpe, R. B.*, LL.D.—On a Collection of Birds from the District of Deelfontein, in Cape Colony. Parts I. and II.
- On Further Collections of Birds from the Etulen District of Cameroo, West Africa. Parts I. and II.
- Report on the Birds obtained by the National Antarctic Expedition at the Island of South Trinidad.
- Shortridge, G. C.*—On a Collection of Birds from the Neighbourhood of Port St Johns, in Pondoland. With a Preface and Notes by W. L. Slater.
- Stenhouse, J. H.*, M.B., R.N.—The Birds of Nakl Island, on the Coast of Syria.
- Wilson, E.*, M.B.—The Birds of the Island of South Trinidad.

COUNTRY.

BARNESLEY NATURALIST AND SCIENTIFIC SOCIETY,

HARVEY INSTITUTE, ELTON STREET. (FOUNDED 1867.)

Officers.—*President*: Walter Maudslay. *Hon. Secretary*: H. Wade, 10 Pitt Street.

Meetings.—On first and third Mondays in the month, at 8 P.M. The Anniversary Meeting takes place in January.

Membership.—No Entrance Fee; Annual Subscription: for Ordinary Members 6s.; Ladies and Youths, 3s.; for Honorary Members, 10s. 6d.; Life Composition, £5.

List of Papers read during Session 1904-1905.

- Bayford, E. G.*—Insects as Food and Medicine. Mar. 6.
- Carter, Rev. W. L.*, M.A., F.G.S.—The Geological History of the Don River System. Nov. 21.
- Fryer, Dr.*—Radio-activity and Allied Phenomena. Mar. 20.
- Hardy, C. J.*—Mimicry in Butterflies and Moths. Apr. 3.
- Hewett, W.*—Yorkshire Birds: their Haunts and Habits. Jan. 23.
- Kendall, P. F.*, F.G.S.—The Concealed Extension of the Yorkshire Coal-field. Dec. 5.
- M'Lean, K.*—The *Tetraonidæ* (Grouse Family). Oct. 24.
- Parkin, G.*—Vegetable Galls. Nov. 7.
- Smith, W. G.*, B.Sc., Ph.D.—Plant-life on a Heather Moor. Feb. 20.
- Watson, R.*—The Discovery of the Atmospheric Gases. Feb. 6.

BIRMINGHAM NATURAL HISTORY AND PHILOSOPHICAL SOCIETY,

NORWICH UNION CHAMBERS, CONGREVE STREET.

(FOUNDED 1858.)

Officers.—*President*: A. H. Martineau, F.E.S. *Hon. Secretaries*: W. P. Marshall, M.I.C.E.; W. B. Grove, M.A.

Meetings.—On Tuesdays at 7.30 P.M. The Anniversary Meeting takes place in February.

Membership.—No Entrance Fee; Annual Subscription, One Guinea; Life Member, £10, 10s.

Publication.—*Proceedings*.

BOLTON MICROSCOPICAL SOCIETY.

(*Affiliated to the Royal Microscopical Society.*)

THE TECHNICAL SCHOOL, MAWDSLEY STREET. (FOUNDED 1877.)

Officers.—*President*: (Vacant.)

Hon. Secretary:

W. W. Midgley, Chadwick Museum.

Meetings.—Second Thursday, October to April, at 7.30 P.M. The Anniversary Meeting takes place in October.

Membership.—No Entrance Fee; Annual Subscription, 5s.

List of Papers read during Session 1904–1905.

Blain, W. R.—On Section Cutting. Mar. 16.

Holden, T. K.—The Fern: a Microscopical Study of the Cryptogams. Nov. 17.

Midgley, W. W.—On the Best Methods of Separating and Cleaning, also Mounting Foraminifera in Canada Balsam, from Shore Sand. Oct. 20.

— On Mounting in Glycerine Jelly. Mar. 16.

Mitchell, F.—Infusoria and Pond Life, with some Remarks on their Biological Value. Dec. 15.

— The Educational Value of a Cabinet of Micro' Slides. Feb. 16.

Peters, T.—The Modern Microscope: its Essential Parts and some Recent Improvements thereto. Jan. 19.

— Mounting in Canada Balsam. Mar. 16.

BRADFORD NATURAL HISTORY AND MICROSCOPICAL SOCIETY.

[*Formed by the Amalgamation of the Bradford Naturalists' Society (founded 1875) and the Bradford Microscopical Society (founded 1882).*]

CHURCH INSTITUTE, NORTH PARADE.

Officers.—*President*: W. H. Parkin. *Hon. Secretary*: F. Jowett, Strawberry Cottage, Gilstead, Bingley.

Meetings.—Alternate Mondays at 7.30 P.M. The Annual Meeting takes place in December.

Membership.—Entrance Fee, 1s.; Annual Subscription, 4s.

List of Papers read during Session 1904–1905.

Badland, A.—Bird Watching. Jan. 16.

Benney, A. E.—Moonshine. Oct. 24.

Booth, F.—Conchology. Mar. 13.

Craven, J. H.—Ornithological Tour in California. Oct 10.

Forrest, H. E.—Shore Birds and their Ways. May 22.

Hewett, W.—Yorkshire Birds: their Haunts and Habits. Feb. 27.

Ingham, W.—Mosses and Hepatics Compared and Contrasted. Feb. 13.

Parkin, W. H.—The Rock Dove and its Variation under Domestication. Apr. 10.

Spencer, E.—The Rose. Jan. 30.

BRISTOL NATURALISTS' SOCIETY,
LITERARY AND PHILOSOPHICAL CLUB, BERKELEY SQUARE,
CLIFTON. (FOUNDED MAY 1862.)

Officers.—*President*: C. King Rudge. *Hon. Secretary*: Prof. S. H. Reynolds, M.A., University College.

Meetings.—First Thursday in each month, at 8 P.M., from October to May inclusive. The Anniversary Meeting takes place on the third Thursday in January.

Membership.—Entrance Fee, 5s.; Annual Subscription, 10s.; Associates, 5s.

Publications during 1904.—*Proceedings*, Vol. X., Part 3, New Series, 2s. (for 1903), containing the following papers:—*A Memoir of Robert Etheridge*, by John B. Woodward, F.R.S. *The Field Relations of the Carboniferous Volcanic Rocks of Somerset*, by C. L. Morgan, LL.D., F.R.S., and E. H. Reynolds, M.A. *The Rhætic Bone Beds*, by W. H. Wickes. *The Avon and its Gravels*, by the Rev. B. Oriol, B.Sc., B.A. *On the Occurrence of Shell-bearing Gravel at Dumball Island*, and *On Abnormally Marked Lion Cubs*, by H. Bolton, F.R.S.E. *On an Interesting Habitat for Diplotaxis termiflora*, the *Narrow-leaved Wall Mustard*, by A. C. Fryer, Ph.D., F.C.S.

List of Papers read during 1904.

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| <p><i>Beddoe, Dr J.</i>, M.D., LL.D., F.R.S.—On a Cranium and other Human Bones from Kingston Bagprize, near Abingdon. Nov. 3.</p> <p>—Report on Two Skulls found at great depth at Bristol Dock Gate and at Avonmouth Dock. Nov. 3.</p> <p><i>Bolton, H.</i>, F.R.S.E.—Some Abnormally Marked Tiger Cubs. May 5.</p> <p>—The Occurrence of a Shell-bearing Gravel at Dumball Island. May 5.</p> <p><i>Charbonnier, H. J.</i>—The Birds of our Woodlands. Apr. 7.</p> | <p><i>Charbonnier, H. J.</i>—Local Diptera. Oct. 6.</p> <p><i>Davis, O. C. M.</i>—Fermentation. Nov. 3.</p> <p><i>Griffiths, G. C.</i>—The Migration of Lepidoptera. Feb. 11.</p> <p><i>Phillips, R.</i>—Wanderings in the Bush and Jungle of Northern Queensland. May 5.</p> <p><i>Prowse, Dr A. B.</i>—The So-called Vegetable Caterpillar. Apr. 7.</p> <p><i>Roper, Miss I. M.</i>—Flowers of Mendip. Mar. 3.</p> <p><i>Wood, C. A.</i>—Beside a Gloucestershire Stream. Dec. 1.</p> |
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BRITISH MYCOLOGICAL SOCIETY,

34 FOREGATE STREET, WORCESTER.

Officers.—*President*: R. H. Biffen, M.A. *Vice-President*: Prof. H. Marshall Ward, D.Sc., F.R.S.E. *Secretary*: C. Rea, B.C.L., M.A.

Meetings.—No Ordinary Meetings are held, but once a year the members meet at some place determined upon at the previous Meeting, for the Annual Fungus Foray, lasting about a week. This year the Club visited Haslemere from the 25th to the 30th of September, on the invitation of the Haslemere Microscopic and Natural History Society.

Membership.—Foundation Members (limited to 100, and now closed), 5s. annually; Ordinary Members, 10s. There is no Entrance Fee.

Publication, 1904.—*Transactions* (Season 1904), 10s.

*Communications made before the Society at the Meeting at Whitby, and published in "Transactions," 12th to 17th September 1904, those marked * being published in "Transactions."*

Biffen, R. H., M.A.—Recent Researches on Parasitism. Sept. 13.*
Perceval, C. H. S.—Notes on Three Uncommon Fungi. Nov.*
Plowright, C. B., M.D.—*Corticium (Peniophora) chrysanthemi*. Jan.*
 —Eriksson's recent Researches on the Vegetative Life of the Cereal Rust Fungi. Sept. 16.*

Rea, C., B.C.L., M.A.—Notes on some of our New British Fungi. Sept. 15.
Saccardo, P. A.—De diagnostica et nomenclatura mycologica admonita quædam, Discussion thereon. Sept. 14.*
Smith, Miss A. L., F.L.S., and C. Rea, B.C.L., M.A.—Fungi new to Britain. May 13.

CARADOC AND SEVERN VALLEY FIELD CLUB,

37 CASTLE STREET, SHREWSBURY.

Officers.—*President*: W. E. Garnett-Botfield. *Hon. Secretary*: H. E. Forrest, 37 Castle Street.

Meetings.—An Annual Meeting in February, Field Meetings during Summer and Autumn, and Evening Meetings October to May at 7.30 P.M.

Membership.—Entrance Fee, 5s.; Annual Subscription, 5s.

Publications during 1904.—*Transactions* (1904), 1s. *Record of Bare Facts* (1904), 1s.

List of Papers read during Session 1904–1905.

Bennett, A.—On *Scheuchzeria palustris*. Jan. 27.
Cobbold, E. S.—Roman Baths at Bath. Jan. 27.
 —A Sea Beach. Oct. 7.
Cooke, J. H.—Prehistoric Man in Lincolnshire. Mar. 11.
 —Travels in the Balkans. Nov. 30.

Forrest, H. E.—Buzzard, Kite, and Raven in Wales. Feb. 24.
Hamilton, W. P.—Spots on *Arum maculatum*. Nov. 11.
Harries, H. F.—Three Weeks in Norway. Apr. 11.
Thursby-Pelham, Rev. A.—A Tour in the East. Oct. 26.
Yelland, W.—Volcanoes. Nov. 21.

CARDIFF NATURALISTS' SOCIETY,

2 ST ANDREW'S CRESCENT. (FOUNDED 1867.)

Officers.—*President*: P. R. Griffiths, M.B. *Hon. Secretary*: William Sheen, F.R.C.S., 2 St Andrew's Crescent.

Meetings.—Fourth Thursday in the month, from October to March, at 8 P.M. Field Meetings are held in the Summer months. The Annual Meeting takes place in October.

Membership.—No Entrance Fee; Annual Subscription, 15s.; Life Composition, 5 Guineas.

Publication.—*Transactions*, Vol. XXXVII. (1904), price 3s. 6d.

Titles of Papers read before the Society during Session 1904–1905.

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| <p><i>Bailie, J. D.</i>, M.I.M.E.—The Steam Turbine. Mar. 9.</p> <p><i>Griffiths, Dr P. R.</i>, M.B.—The Educational Value of Photography. Oct. 13.</p> <p><i>Hall, R. H.</i>, F.R.G.S.—The Ruins of the Ancient Temples of the Great Zimbabwe, Rhodesia, including Life and Customs of the Makabang or "People of the Sun." Oct. 27.</p> <p><i>Harris, A. E.</i>—Sand Dunes: their Growth, History, and Contents. Nov. 24.</p> <p><i>Hughes, Miss E. P.</i>, M.A.—Old Japan. Jan. 26.</p> <p><i>Littledale, Prof. H.</i>, M.A.—Himalayan Rambles. Feb. 23.</p> | <p><i>Maunder, E. W.</i>, F.R.A.S.—Spots on the Sun. Feb. 9.</p> <p><i>Petrie, Prof. F.</i>, D.C.L., LL.D.—The First Kings of Egypt. Nov. 4.</p> <p><i>Thomas, T. H.</i>, R.C.A.—Welsh Artists and their Work. Mar. 23.</p> <p><i>Thompson, Prof. S. P.</i>, D.Sc., F.R.S.—Michael Faraday and the Modern Developments of Electricity. Dec. 8.</p> <p><i>Trow, Dr A. H.</i>, F.L.S.—The Secret of the Flower. Dec. 22.</p> <p><i>Ward, Prof. M.</i>, D.Sc., F.R.S.—Forest Trees. Jan. 12.</p> <p><i>Watts, Prof. W. W.</i>, M.A., F.R.S.—Charnwood Forest: a Buried Landscape. Apr. 6.</p> |
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THE CHELTENHAM NATURAL SCIENCE SOCIETY.

Officers.—*President*: Dr E. T. Wilson, F.R.C.P. *Secretary*: C. A. Witchell, "Bathurst," Cirencester Road.

Membership.—Annual Subscription, 10s.

Meetings.—Third Monday in each Winter month at 8 P.M. Anniversary Meeting, first Monday in October.

Papers read during Session 1904–1905.

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| <p><i>Callaway, C.</i>, D.Sc.—Gaps in the Succession of Life on the Globe. Jan. 23.</p> <p><i>Cardew, G. A.</i>, M.R.C.S.—Common Errors in the Ventilation of large Buildings, and their Correction. Dec. 5.</p> <p><i>Coombs, J. A.</i>, F.G.S.—The Evolution of Worlds. Apr. 17.</p> | <p><i>Evans, Rev. J.</i>, B.A.—Gloucestershire and Ancient British History. Feb. 20.</p> <p><i>Sawyer, J.</i>—Ancient Highways in Gloucestershire. Mar. 20.</p> <p><i>Wilson, Dr E. T.</i>, F.R.C.P.—Some Thoughts on the Cosmos. Oct. 17.</p> |
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CHICHESTER AND WEST SUSSEX NATURAL HISTORY AND MICROSCOPICAL SOCIETY,

THE MUSEUM, CHICHESTER.

Officers.—*President*: W. H. B. Fletcher, F.E.S. *Hon. Secretary*: J. Anderson Alre Villa, Chichester.

Meetings.—Second Tuesday in each month, from September to May inclusive. The Annual General Meeting takes place in March.

Membership.—No Entrance Fee; Annual Subscription, 5s.

This Society is at present in abeyance.

COTTESWOLD NATURALISTS' FIELD CLUB,

THE COTTESWOLD CLUB, EASTGATE, GLOUCESTER.

Officers.—*President*: Rev. Walter Butt, M.A. *Hon. Secretary*: L. Richardson, F.G.S., 10 Oxford Parade, Cheltenham.

Meetings.—There are four Winter Meetings, four whole-day Field Meetings, and two half-day Field Meetings. The Annual Meeting is held in April.

Membership.—Entrance Fee, £1; Annual Subscription, 15s.

Publications.—*Proceedings*, Vol. XV., Parts 1 and 2, price 5s. 3d. per part.

Contents of Proceedings, Vols. I. to XIV., price 3s. 6d.

*List of Papers published in the "Proceedings," Vol. XV.,
Parts 1 and 2.*

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| <i>Callaway, C., M.A., D.Sc., F.G.S.</i> —President's Address. Part I.—Formal Record. Part II.—Pre-Cambrian Volcanoes. | Ancient Occupation on Cleeve Hill near Cheltenham. Appendix: The Vertebrate and Molluscan Remains from Cleeve Hill, by M. A. C. Hinton and A. S. Kennard. |
| <i>Charles, W. R., C.M.G., F.L.S., F.R.G.S.</i> —Korea. | <i>Helps, A. S.</i> —Notes on a Daily Weather Chart. |
| <i>Crooke, W., B.A., F.A.I.</i> —The People of India. | <i>Medland, M. H., F.R.I.B.A.</i> —On some further Evidence of the Roman Occupation of Gloucester. |
| —The Rude Stone Monuments of India. | <i>Richardson, L., F.G.S.</i> —The Effects of Earth-Pressures upon the Keuper Rocks of the Eldersfield District. |
| <i>Duke, Lieut.-Col. J. C., and C. Callaway, M.A., B.Sc., F.G.S.</i> —Notes on Rocks collected in Cyprus. Part I.—Description of the Locality. Part II.—Notes on the Specimens. | —The Rhætic Rocks of Worcester-shire. |
| <i>Gray, J. W., F.G.S., and G. W. S. Brewer, F.G.S.</i> —Evidence of | <i>Upton, C.</i> —Some Cotteswold Brachio-poda. |

CROYDON NATURAL HISTORY AND SCIENTIFIC SOCIETY,

PUBLIC HALL, WELLESLEY ROAD, CROYDON. (FOUNDED 1870.)

Officers.—*President*: W. F. Stanley, F.G.S. *Hon. Secretary*: G. W. Moore, Bryndhurst, 15 Dornton Road.

Meetings.—Third Tuesday in each month, from September to May inclusive, at 8 P.M. The Annual Meeting takes place in January.

Membership.—No Entrance Fee; Annual Subscription, 10s.; Life Members, £10.

Publication.—*Annual Proceedings and Transactions*, yearly, 1s. to Members.

List of Papers read during 1904.

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| <i>Hinde, G. J., D.Ph., F.G.S.</i> —Description of some Fossils (<i>Porozophæra</i>) from a Croydon Garden. Oct. 18. | <i>Roberts, N. F., F.G.S.</i> —Notes on Section of Woolwich and Reading Beds, New Cross Gate. Dec. 20. |
| <i>Latham, B., M.I.C.E., F.G.S.</i> —The Croydon Bourne Flows. May 17. | <i>Stanley, W. F., F.G.S.</i> —Economy of Growing Canadian Poplars on Waste Lands for the Manufacture of Paper. Dec. 20. |
| <i>Roberts, N. F., F.G.S.</i> —Note on the New Cross-Cutting, L.B. & S.C. Rly. Apr. 19. | <i>Whitaker, W., F.R.S., F.G.S.</i> —Some Surrey Wells. (Fourth Paper.) Oct. 18. |
| —Paper on Bermondsey Priory. Nov. 15. | |

EASTBOURNE NATURAL HISTORY SOCIETY,

LISMORE ROAD, EASTBOURNE.

Officers.—*President*: H. Habgood, M.D., Stafford House. *Secretary*: E. J. Bedford.

Meetings.—On first Thursday in every month during Winter, at 8.15 P.M. The Anniversary Meeting is held in November. Several out-door Meetings are held during the Summer.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 7s. 6d.

[No Return.]

ESSEX FIELD CLUB,

THE ESSEX COUNTY MUSEUM OF NATURAL HISTORY,

Romford Road, Stratford, Essex.

THE EPPING FOREST MUSEUM,

Queen Elizabeth's Lodge, Chingford, Essex.

Officers.—*President*: Miller Christy, F.L.S. *Hon. Secretary*: W. Cole, F.L.S., F.E.S., Springfield, Buckhurst Hill, Essex. *Treasurer*: David Howard, J.P., F.C.S.

Meetings.—Ordinary Meetings during Winter Session (October to March), last Saturday in each month. Field Meetings about twelve in the year. The Annual Meeting is held in March.

Membership.—Annual Subscription, 15s.; Life Composition, £10, 10s.

Publications.—*Essex Naturalist*, the quarterly journal of the Club, free to Members; to Non-Members, 20s. per annum. *The Year Book and Calendar of the Essex Field Club* (annually 1s.) and *Special Memoirs* (occasionally).

List of Papers published during Session 1904–1905.

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| <i>Avery, J.</i> —George Edwards, the Stratford Naturalist. | <i>Reader, F. W.</i> —Wooden Water-Pipes at Clerkenwell. |
| <i>Boulger, Prof. G. S.</i> , F.L.S.—History of Essex Botany. Part I. (continuation). | <i>Rudler, F. W.</i> , I.S.O., F.G.S.—The Natural History of Pyrites and Gypsum. |
| <i>Chittenden, F. J.</i> —The Uredineæ and Ustilagineæ of Essex. | — Report as Club's Delegate at Corresponding Societies' Committee of the British Association, Cambridge, 1904. |
| <i>Christy, Miller</i> , F.L.S.—The Remains of a Supposed Pile-Dwelling at Woodham Mortimer, Essex. | — On Natural History Museums (with Special Reference to the E.F.C. Museums). |
| <i>Cooke, Dr M. C.</i> —Edible Fungi. | <i>Sillem, Charles.</i> See <i>Webb, W. M.</i> |
| <i>Dalton, W. H.</i> , F.G.S.—Absence of Beech in Hainault as contrasted with Epping Forest. | <i>Smith, Frank P.</i> —The Spiders of Epping Forest. Part. III. |
| <i>Dymond, T. S.</i> , F.I.C., F.C.S.—Charcoal-burning in Essex. | <i>Webb, W. M.</i> , F.L.S., and <i>Charles Sillem.</i> —The British Woodlice (with 25 plates, figuring all the Species). Part I. |
| <i>Holmes, T. V.</i> , F.G.S.—Additional Notes on Tree-Trunk Water-Pipes. | <i>Winkworth, J. T.</i> —Variations of <i>Helix nemoralis</i> at Harlow, Essex. |
| — On the Origin of the Term "Sarsen-Stones." | [The Club has Established a Separate Committee for Creating a Photographic and Pictorial Survey of Essex. Hon. Sec., Victor Taylor.] |
| <i>Larkby, J. R.</i> —Evidences of Pre-Historic Man in West Kent. | |
| <i>Petch, T.</i> , B.A., B.Sc.—The Rediscovery of <i>Limax tenellus</i> in Britain and Essex. | |

FOLKESTONE NATURAL HISTORY AND MICROSCOPICAL SOCIETY,

PUBLIC LIBRARY. (FOUNDED 1868.)

Officers.—*President*: G. C. Walton, F.L.S. *Hon. Secretary*: Stuart G. Hills, Public Library.

Meetings.—Second and fourth Tuesday in each month, from October to May inclusive. The Annual Meeting takes place in January.

Membership.—No Entrance Fee; Annual Subscription, 5s. and 2s. 6d.

THE HASTINGS AND ST LEONARDS NATURAL HISTORY SOCIETY,

THE MUSEUM, HASTINGS.

(FOUNDED 1893.)

Officers.—*President*: Thomas Parkin, M.A., J.P., F.R.G.S., F.Z.S., M.B.O.U. *General Secretary*: E. Connold, F.E.S., 7 Magdalen Terrace, St Leonards-on-Sea.

Meetings.—Alternate Tuesdays, at 8 P.M., October to June. The Annual Meeting is held in October.

Membership.—Entrance Fee, 1s.; Annual Subscription, 2s. 6d. or more.

Publication.—*Ninth Annual Report*, containing additions to the List of Local Flora and Fauna, 6d.

List of Papers read during Session 1904–1905.

Bedford, E. J.—A Visit to the Farne Islands, and their Birds. Jan. 17.
Bulman, G. W., M.A., B.Sc.—Geology as History. Nov. 8.
Butler, J. J.—Our Beautiful River Thames. Jan. 3.
Butterfield, W. R., M.B.O.U.—Some Locally Neglected Branches of Natural History Study. Apr. 25.
Cheshire, H. F., F.I.C., B.Sc.—The Formation of Rain and Snow. Nov. 22.
 —The Nature of Eggs, and the Law of Heredity. May 9.
Connold, E., F.E.S.—A Few Glints of Nature. Feb. 28.
 —Locomotion in Low Life. June 20.
Gray, G. G., LL.D., F.R.G.S., F.L.S.—A Tour through India; and the Delhi Durbar. Dec. 6.

Gray, G. G., LL.D., F.R.G.S., F.L.S.—Through the Desert of Palmyra. Mar. 28.
Holes, T. B.—Hairs: their Structure and Mode of Growth. Apr. 11.
Lambert, F., F.R.G.S.—The Jenolan Caves of New South Wales. Jan. 31.
Locke, G., M.R.C.S., L.R.C.P., L.S.A.—Natural History in Fiction. Mar. 14.
Miles, A.—Some Snapshots in Sussex. May 23.
Nicoll, M. J., M.B.O.U.—Some Birds from our Fields and Shores. Feb. 14.
Parkin, T., M.A., F.Z.S., F.R.G.S., M.B.O.U.—Demonstration on Variation and Abnormality in Eggs. June 6.

HOLMESDALE NATURAL HISTORY CLUB, THE MUSEUM, OLD TOWN HALL, REIGATE.

Officers.—*President*: J. B. Crosfield. *Hon. Secretary*: G. E. Frisby, 9 Fengates Road, Redhill.

Meetings.—Fourth Friday in each month, from October to April inclusive, at 8 P.M. The Anniversary Meeting takes place in October at 7.30 P.M.

Membership.—No Entrance Fee; Annual Subscription, 10s. and 5s.

List of Papers read during Session 1904-1905.

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| <i>Bullen, Rev. R. A., F.L.S., F.G.S.</i> — Prehistoric Archæology of the Alcores, Province Seville. Mar. 31. | <i>Lovett, E., F.R.H.S.</i> —An Alpine Gar- den. Oct. 28. |
| <i>Curtis, Dr F.</i> —Colouring of Birds' Eggs. Jan. 27. | <i>Scott, Mrs D. H.</i> —Plants in Motion. Dec. 2. |
| <i>Griffin, W. H.</i> —Plant Folklore. Feb. 24. | <i>Tonge, A. E.</i> —Eggs of Butterflies and Moths. Apr. 28. |

HUDDERSFIELD NATURALIST AND PHOTOGRAPHIC SOCIETY,

THE TECHNICAL COLLEGE.

Officers.—*President*: J. W. Glendinning. *Hon. Secretary*: W. E. L. Wattam,
54 Towngate, Newsome, near Huddersfield.

Meetings.—Last Saturday in each month. The Anniversary Meeting takes place
in July.

Membership.—No Entrance Fee; Annual Subscription, 4s.

List of Papers read during Session 1904-1905.

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| <i>Dean, A.</i> —Burying Beetles. Dec. 17. | <i>Sheppard, T., F.G.S.</i> —A Geological Ramble on the Yorkshire Coast. Feb. 25. |
| <i>Houghton, A.</i> —Cawthorniana. Jan. 28. | <i>Smith, W. G., Ph.D., B.Sc.</i> —Distri- bution of Coniferous Trees. Sept. 24. |
| <i>Johnson, J. W. H., B.Sc.</i> —Light. Apr. 29. | <i>Walker, N.</i> —Aquatic Plants. Mar. 25. |
| <i>Mosley, C.</i> —Peeps through a Natural- ist's Camera. Nov. 26. | |
| <i>Parkin, G.</i> —Frost Crystals. Oct. 29. | |

EAST KENT SCIENTIFIC AND NATURAL HISTORY SOCIETY,

THE BEANEY INSTITUTE, CANTERBURY. (FOUNDED 1858.)

Officers.—*President*: S. Harvey, F.I.C., F.C.S. *Hon. Secretary*: A. Lander,
The Medical Hall, Canterbury.

Meetings.—Second and fourth Tuesdays in the Winter months, at 7.30 P.M.
Excursions on corresponding Thursdays in Summer. The Annual Meeting
takes place in October.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.

Publication.—*Report and Transactions.*

List of Papers read during Session 1904-1905.

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| <i>Austen, W. G.</i> —Nine Days in Belgium. Feb. 21. | <i>M'Dakin, Capt. J. G.</i> —The Initial Cause of the Dover Valley. Nov. 8. |
| <i>Battley, A. U.</i> —Hints on Collecting Lepidoptera. Jan. 24. | <i>Mann, W. P.</i> —Polarised Light and Colour Phenomena. Apr. 11. |
| <i>Buckingham, C.</i> —The Intermittent Streams of East Kent. Mar. 7. | <i>Pittock, Dr.</i> —Bacteria. Feb. 7. |
| <i>De Vere, T.</i> —The Evolution of our Planet. Apr. 25. | <i>Saunders, S.</i> —Barnacles. Dec. 13. |
| <i>Harvey, S.</i> —A Plea for the Study of Natural History. Oct. 18. | <i>Slater, W. F.</i> —Photographic Apparatus and Materials. Nov. 22. |
| <i>Kearton, R.</i> —Nature at Work and Play. Dec. 7. | <i>Smith, W. E.</i> —The Mind: its Influence over the Body. Mar. 21. |

WEST KENT NATURAL HISTORY, MICROSCOPICAL, AND PHOTOGRAPHIC SOCIETY,

SCHOOL FOR THE SONS OF MISSIONARIES, BLACKHEATH, S.E.

(FOUNDED 1860.)

Officers. — *President*: Walter Kidd, M.D., F.E.S. *Hon. Secretaries*: Walter Dannatt, F.E.S., 75 Vanburgh Park, Blackheath; Herbert S. Saunders, 71 Lee Road, Blackheath.

Meetings.—Second Wednesday in December, and the fourth Wednesday in the other months, from October to May inclusive, at the Hall of the Mission School. The Anniversary Meeting takes place fourth Wednesday in February.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.; Life Composition, £5, 5s.

Publication.—*Transactions*.

*List of Papers read during Session 1904–1905. Those marked * have been published.*

Draper, G., F.R.G.S.—President's Address—Deep-Sea Currents. Mar. 23.*

Edwards, S., F.L.S.—Scent Glands in Insects. May 25.

Foucar, J. L.—Observations on the Geology of Shooters Hill. Apr. 27.*

Gover, W. H. and A. S.—Photographs of Scenery near Arolla and Zermatt. Nov. 24.

Jones, H., F.L.S.—Notes on the History of the West Kent Natural History, Microscopical, and Photographic Society. Jan. 25.

Kidd, W., M.D.—Wrinkles on the Human Face. Dec. 14.*

—President's Address—Lamarck and Darwin. Feb. 22.*

LANCASHIRE AND CHESHIRE ENTOMOLOGICAL SOCIETY,

ROYAL INSTITUTION, COLQUITT STREET, LIVERPOOL.

Officers.—*President*: S. J. Capper, F.E.S. *Hon. Secretaries*: E. J. B. Sopp, F.R.Met.S., F.E.S., Ivy Lawn, Birkdale; I. R. le B. Tomlin, M.A., F.E.S., Estyn, Chester; W. D. Harrison, Victoria Park, Wavertree, Liverpool.

Meetings.—Third Monday in each month, October to May, at 7.30 P.M. The Annual Meeting takes place in December.

Membership.—Annual Subscription, 5s.; Non-Residents, 2s. 6d. Life Members, £3, 3s. and £1, 10s. 6d.

Publications.—*Annual Report*, 1905, 1s. *Library Catalogue*, 1903. *The Orthoptera of Lancashire and Cheshire* and *The Callipers of Earwigs*, both by E. J. B. Sopp, F.R.Met.S., F.E.S.

*List of Papers read during Session 1904–1905. The Papers marked * were published in full, and † in abstract in the "Proceedings."*

Crallan, G. E. J., M.A., M.B.—The Life-History of *Ophiodes (Pseudophia) lunaris*. Apr. 17.†

Mansbridge, W., F.E.S.—The Tortrices of the Liverpool District. Feb. 20.†

Newstead, R., A.L.S., F.E.S., Hon. F.R.H.S.—The Collections in the Grosvenor Museum, Chester. Nov. 21.†

Score, H. B., F.R.G.S., F.R.Hist.S.—Ants and their Ways. Jan. 16.†

Sopp, E. J. B., F.R.Met.S., F.E.S.—The Orthoptera of Lancashire and Cheshire. Mar. 20.*

Tait, R., jun.—A Lepidopterist's Work during 1904. Dec. 19.*

LIVERPOOL BIOLOGICAL SOCIETY, UNIVERSITY COLLEGE.

Officers.—*President*: A. Leicester. *Hon. Secretary*: J. A. Clubb, M.Sc., Free Public Museum.

Meetings.—Ordinary Meetings, second Friday in each month, from October to June inclusive, at 7.30 P.M. The Annual Meeting is held in October.

Membership.—Ordinary Members: Entrance Fee, 10s. 6d.; Annual Subscription, £1, 1s. Associate Members: Entrance Fee, 2s. 6d.; Annual Subscription, 10s. 6d. Student Members: Entrance Fee, 2s. 6d.; Annual Subscription, 5s.

*Papers read during the Session 1904–1905. Those marked * are published in the "Proceedings and Transactions," Vol. XIX., 21s.*

Beasley, H. C.—Notes on Fossil Footprints of *Rhynchosaurus* and *Cheirotherium*. May 12.

Clubb, J. A.—Note on the Variation in the Dorsal Fin of the Spotted Goby. Jan. 13.

Herdman, W. A.—Eighteenth Annual Report on the Port Erin Biological Station. Nov. 11.*

— and *P. M. C. Kermode*.—Notes on the Pre-Historic Antiquities of the Isle of Man. Nov. 11.*

— *A. Scott*, and *J. Johnstone*.—Re-

port for 1904 of Lancashire Sea Fisheries. Jan. 13.*

Hoyle, W. E.—Recent Researches on the Cephalopoda. Feb. 10.

Leicester, A.—Inaugural Address—"Mollusca and their Shells." Oct. 14.*

O'Connell, J. H.—Young Crocodilians in Captivity. Dec. 9.*

— Notes on Living Chelonians. May 12.

Sherrington, C. S.—Motor Localisation in the Brain of the Gorilla. Mar. 17.

LIVERPOOL MICROSCOPICAL SOCIETY, ROYAL INSTITUTION, COLQUITT STREET.

Officers.—*President*: J. D. Macphail. *Hon. Secretary*: W. T. Haydon, 135 Bedford Street, S.

Objects.—The Advancement of Microscopical Science.

Meetings.—First Friday in Month, October to May, 7 P.M. The Annual Meeting is held on the third Friday in January.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.

Publication.—*Annual Report*.

List of Papers read during Session 1904–1905.

Buchanan, Dr R. J. M.—Notes on the Form and Function of the Centrosome. Feb. 3.

— Notes on *Trypanosoma*. Apr. 7.

Dixon-Nuttall, F. R., F.R.M.S.—The Study of the Rotifera. Oct. 7.

Dudley, A. H.—Reproduction, the Altruism of Plant Life. Nov. 4.

Hay, Dr J.—Abnormal Variations in the Corpuscular Elements of the Blood. Apr. 7.

Jones, T. A.—The Microscopical

Characteristics of the Carboniferous Limestone. Dec. 2.

Lewis, A. E., F.I.C.—Nitrogen Fixing Micro-organisms. Mar. 3.

Macphail, J. D.—The Draughtsman's Art in Relation to Biological Science. Jan. 13.

Oelrichs, W., F.R.M.S.—Note on some Dried Flies as an Article of Commerce. Nov. 4.

Robertson, H. R., F.R.M.S.—What is a Diatom? Feb. 3.

LIVERPOOL NATURALISTS' FIELD CLUB,

ROYAL INSTITUTION, COLQUITT STREET. (FOUNDED 1860.)

Officers.—*President*: Colonel C. A. Whitney, V.C. *Secretaries*: Dr J. W. Ellis, 18 Rodney Street; Miss E. M. Wood, 17 Frodsham Street, Birkenhead.

Meetings.—Last Friday in each month, during Winter, at 7.30 P.M., and Field Meetings about fortnightly during the Summer. The Anniversary Meeting takes place in January.

Membership.—Annual Subscription, 5s.

Publications.—*Proceedings*, annually, free to Members. *The Flora of Liverpool*, edited by Dr C. Theodore Green, F.L.S. New edition, 5s.

List of Papers read during Session 1904–1905.

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| <p><i>Ellis, Dr J. W.</i>, F.E.S.—The River Dee from Arran to Hilbre. Feb. 26.</p> <p><i>Green, Dr C. T.</i>, F.L.S.—Wild Flowers of the Liverpool District. Apr. 8.</p> | <p><i>Holt, W. H.</i>—Presidential Address—Flight, Natural and Artificial. (Published.) Oct. 8.</p> <p><i>Ker, R. W.</i>, F.R.H.S.—Hardy Flowering Trees and Shrubs. Jan. 29.</p> |
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LOUTH ANTIQUARIAN AND NATURALISTS' SOCIETY,

THE MUSEUM, NEW STREET.

Officers.—*President*: Alderman S. Cresswell. *Hon. Secretaries*: R. W. Goulding, Mercer Row; B. Crow, Lee Street.

Meetings.—Every Monday, at 8.15 P.M. The Annual Meeting is held in June.

Membership.—No Entrance Fee; Annual Subscription (minimum), 5s.

List of Papers read during Session 1904–1905.

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| <p><i>Carter, C. S.</i>—History of Wrotham. Dec. 5.</p> <p>—Isle of Sheppey. Mar. 6.</p> <p><i>Farmery, J. R.</i>—Supersession of the Britons by the Anglo-Saxons. Jan. 9.</p> <p><i>Foster, Rev. J.</i>, D.C.L.—Remarks on Othello. Oct. 24.</p> <p>—Gleanings from the Diary of Henry Machyn. Jan. 30.</p> | <p><i>Jones, J.</i>—A Study of Tennyson as a Lover of the Sea. Dec. 19.</p> <p><i>Massingberd, Rev. W. O.</i>—Estate and Farm Management in Lincolnshire before 1349. Feb. 27.</p> <p><i>Mawer, J.</i>—Farringford and Freshwater. Nov. 21.</p> <p><i>Walker, Rev. G. G.</i>—The Customs of the Manor of Wainfleet. Feb. 6.</p> |
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THE CONCHOLOGICAL SOCIETY OF GREAT BRITAIN AND IRELAND,

THE MUSEUM, THE UNIVERSITY, MANCHESTER. (FOUNDED 1876.)

Officers.—*President*: Dr D. W. Chaster. *Hon. Secretary*: W. E. Hoyle, M.A., D.Sc., F.R.S.E., The University.

Meetings.—Second Wednesday in each month, except July and August, at 7 P.M. The Annual Meeting is held in the Autumn.

Membership.—No Entrance Fee ; Annual Subscription, 5s. ; Life Composition, £3, 3s.

Publication.—*Journal*, quarterly, 1s. 6d. each number.

List of Papers read during Session 1904–1905, and published in the "Journal."

- Adams, L. E.*—Notes from the River Weser. Nov. 9.
 — Notes from Venice. Nov. 9.
 — *Anodonta cygnea* Attached to Foot of Plover. Nov. 9.
 — Do Swans and Ducks eat *Anodonta cygnea*? Nov. 9.
 — Conchological Notes from the United States. Dec. 14.
 — The Mussel Fishery and Pearl Button Industry of the Mississippi. Mar. 8.
 — and *C. E. Wright*.—Notes on the West Cornwall District. Apr. 12.
Dall, W. H.—Note on the Name *Glycimeris*. Dec. 14.
Darbishire, A. D.—Prof. Lang's Breeding Experiments with *Helix hortensis* and *H. nemoralis*. Mar. 8.
Dean, J. D.—New Records of West Lancashire. Dec. 14.
 — and *J. W. Jackson*.—Notes on a Chara and Shell-Marl Deposit at Hawes Water, Silverdale, Lancashire. Dec. 14.
Horsley, Rev. Canon.—Notes on *Tapes*. Mar. 8.
 — International Rules of Zoological Nomenclature adopted by the International Zoological Congress. Mar. 8.
 — Mollusca collected at Cette, Hérault, S. France. Apr. 12.
 — *Hydrobia jenkinsi* in Rivers. May 10.
Hudson, B.—The Rev. John Hawell, M.A., F.G.S. Feb. 8.
Hutton, W. H.—Umbilicated *Limnæa stagnalis*. Nov. 9.
Jackson, J. W.—*Pisidium nitidum*, var. *splendens*, Moq-Tand., in West Lancashire. Nov. 9.
Jukes-Browne, A. J.—On some Questions of Nomenclature. Sept. 14.
 — *Tapes aureus* and its Allies. May 10.
Kobelt, Dr W.—Obituary Notice of the late Dr E. von Martens. Mar. 8.
Massey, Miss A. L.—Opercula of *Bythinia tentaculata*. Feb. 8.
Melville, J. C.—The Sub-Genus *Cassaria* of *Cassia*. Mar. 8.
 — Obituary Notice of the late F. P. Marrat. Mar. 8.
 — Four Colour Varieties of *Cypræa*. Mar. 8.
Oldham, C.—*Valloni excentrich*, Sterki in Ireland. Dec. 14.
Pannell, C.—Notes on the Homing Instincts in Slugs and Snails. Jan. 11.
Pearce, Rev. S. S.—*Testacella haliotide*, var. *flavessens*, Moq-Tand. Nov. 9.
Roebuck, W. D.—Re-establishment of *Limax tenellus* as a British Species. Sept. 14.
 — Radnorshire Slugs. Sept. 14.
Shaw, Rev. W. A.—*Helicella caperata* m. *Sinistrorsum*, in North Hants. Nov. 9.
 — Additions to the Land and Freshwater Mollusca of Northamptonshire. Mar. 8.
 — Note on *Hygromia rufescens* m. *Sinistrorsum*. June 21.
Sherborn, C. D.—On the Dates of Publication of d'Orbigny's "Moll. viv. et foss.," "Paléont. univ.," and "Paléont. étrangère." Feb. 8.
Standen, R.—*Vivipara conlecta* (Millet) m. *Sinistrorsum*, and *Vertigo substriata* (Jeff) m. *Sinistrorsum*. May 10.
Stubbs, A. G.—*Paludestrina jenkinsi* in the New River. Apr. 12.
Swanton, E. W.—Destruction of Potatoes by Slugs. Nov. 9.
Taylor, F.—*Vivipara conlecta*, var. *atropurpurea*. Oct. 12.
Thornehill, Rev. C. F.—Obituary Notice of P. B. Mason. Sept. 14.
Tomlin, J. R. le B.—*Vertigo moulinsiana*, Dupuy, in Berkshire. Nov. 9.
Welsh, R.—Freshwater Shells in Masses in Shell-Marl. Jan. 11.

MANCHESTER ENTOMOLOGICAL SOCIETY,
MANCHESTER MUSEUM, OWENS COLLEGE. (FOUNDED 1902.)

Officers.—*President*: B. H. Crabtree, F.E.S. *Secretary*: Robert J. Wigglesworth, 131 Duke Street, Old Trafford, Manchester.

Meetings.—First Wednesday in every month at 7 P.M. The Anniversary Meeting is held in January.

Membership.—Annual Subscription, 5s.; no Entrance Fee.

Publication.—*Annual Report*.

List of Papers read during Session 1904–1905.

Buckley, W.—Demonstration on the Mounting of Entomological Objects for the Microscope. Apr. 5.

Day, G. O., F.E.S.—Extracts from an Accentuated List of the British Lepidoptera. Feb. 1.

Garnett, J. B.—Entomological Apparatus. May 3.

Kearey, G.—Pupæ Digging and Collecting. Oct. 5.

Thomson, A. E.—The House Fly. Mar. 1.

MANCHESTER MICROSCOPICAL SOCIETY,

GRAND HOTEL, AYTOUN STREET. (FOUNDED 1880.)

(*Affiliated to the Royal Microscopical Society.*)

Officers.—*President*: Prof. S. J. Hickson, M.A., D.Sc., F.R.S. *Hon. Secretaries*: E. C. Stump, 16 Herbert Street, Moss Side, Manchester.

Meetings.—First Thursday in each month, from September to June inclusive. The Annual Meeting takes place in January.

Membership.—Entrance Fee, 5s.; Annual Subscription, 6s.

Publication, 1905.—*Annual Report and Transactions, 1904*, price 1s. 6d.

List of Papers read during Session 1904–1905, and published in "Transactions."

Gillanders, A. T.—Further Notes on Arboreal Insects. Sept. 1.

Hembry, F. W., F.R.M.S.—Report of the Meeting of the British Association at Cambridge. Jan. 7.

Hickson, S. J., M.A., D.Sc., F.R.S.—Micro-Organisms associated with Disease. Dec. 1.

Lord, J. E., F.R.M.S.—The Micro-

Flora and Fauna of our Wells and Surface Troughs. June 2.

Pepworth, W. H.—Wayside Plants. Feb. 6.

Robinson, T.—Notes on the Radiolaria. Mar. and Apr.

Turner, C., F.C.S.—The Microscope as an Aid to the Identification of Poisons. Oct. 1.

MARLBOROUGH COLLEGE NATURAL HISTORY SOCIETY,

THE COLLEGE, MARLBOROUGH.

Officer.—*President and Secretary*: E. Meyrick, B.A., F.R.S., Elmswood, Marlborough.

Membership.—Entrance Fee, 1s. 6d.; Annual Subscription, 5s. and 3s.

Meetings.—Thursdays, at 8.50 P.M.

Publication.—*Annual Report, 2s.*

[*No Return.*]

NEWBURY DISTRICT FIELD CLUB,

76 NATHBROOK STREET, NEWBURY. (FOUNDED 1870.)

Officers.—*President*: W. G. Mount. *Hon. Secretary*: G. J. Watts,
Donnington, Newbury.**Meetings.**—The Annual Meeting takes place in the Spring. Field Meetings
are held twice in Summer.**Membership.**—Entrance Fee, 5s.; Annual Subscription, 5s.**Publication.**—*Annual Report*, with Rules, List of Members, etc.**NORFOLK AND NORWICH NATURALISTS' SOCIETY,**

THE CASTLE MUSEUM, NORWICH. (FOUNDED 1869.)

Officers.—*President*: E. Gurney. *Hon. Secretary*: W. A. Nicholson,
St Helen's Square, Norwich.**Meetings.**—Last Tuesday in each month, from September to May inclusive, but
excluding December, at 7.30 P.M. The Annual Meeting takes place in March.**Membership.**—No Entrance Fee; Annual Subscription, 5s.; Life
Composition, £4.**Publication.**—*Transactions*, Vol. VII., Part 5, 3s. 6d.*List of Papers read during Session 1904–1905.**Bennett, A., F.L.S.*—*Sonchus palustris*,
L., and *Atriplex pedunculata*, L.
Jan. 31.*Bloomfield, Rev. E. N.*—Lichens of
Norfolk and Suffolk. Jan. 31.—*Hepaticæ* of Norfolk (Supplement).
Jan. 31.*Browne, F. B., M.A., F.R.S.E.*—
Aquatic Coleoptera of Broad's
District. Feb. 28.*Clarke, W. G.*—Neolithic Remains in
Thetford District. Jan. 31.*Edwards, J., F.E.S.*—Refutation of
Mr Morley's Statement as to *Bagous*
lutosus, Gyll, etc. Feb. 28.*Freeman, Rev. R.*—Norfolk Rotifera.
Feb. 28.*Garstang, W., M.A.*—President's Ad-
dress. Mar. 28.

—Respiration in Crabs. Sept. 27.

Gurney, R., B.A.—Life-History of
Cladocera. Feb. 28.*Patterson, A.*—Natural History Notes.
Mar. 28.*Preston, A. W., F.R.M.S.*—Meteorolo-
gical Notes, 1904. Feb. 28.*Soar, C. D., F.R.M.S.*—Hydrachnids
of Norfolk Broad's. Feb. 28.*Southwell, T., F.Z.S.*—On Migration,
other than of Birds, with Special
Reference to the Cetacea. Apr.
26.*Wigg, T. J.*—Herring Fishery, 1904.
Feb. 28.**NORTHUMBERLAND, DURHAM, AND NEWCASTLE-
UPON-TYNE NATURAL HISTORY SOCIETY,**

MUSEUM, BARRAS BRIDGE, NEWCASTLE-UPON-TYNE.

(FOUNDED 1829.)

Officers.—*President*: Right Hon. Lord Armstrong, K.C.B., M.A. *Hon.*
Secretaries: N. H. Martin, F.L.S., F.R.S.E.; and C.E. Robson. *Curator of*
Museum: E. L. Gill, M.Sc.**Meetings.**—Field Meetings monthly during the Summer; Evening Meetings and
Lectures during the Winter. The Anniversary Meeting takes place in
October.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publications.—*Natural History Transactions of Northumberland, Durham, and Newcastle-upon-Tyne.* 8s. Vol. XV. (last volume of the Old Series).—New Series, Vol. I, Part 1. (1905); being a continuation (*Microlepidoptera*) of Mr J. E. Robson's *Catalogue of Local Lepidoptera*, begun in Vol. XII. *Transactions.* Part 2. (1905.) 5s. 6d.

*List of Papers read during Session 1904–1905, those marked * being published in "Transactions."*

Adamson, Lieut.-Col. C. H. E., C.I.E.
—Catalogue of Butterflies Collected in Burmah. Part I.*

—The Secondary Sex Characters of certain Genera of Butterflies. Mar. 8.

Bagnall, R. S., F.E.S.—Additions, etc., to the Coleoptera of Northumberland and Durham.*

Bidgood, John, B.Sc., F.R.H.S. — Daffodils. Jan. 5.

Brady, Prof. G. S., M.D., F.R.S.—On Copepoda and other Crustacea taken off Northumberland and Durham in July, 1904.*

—The Colours of Plants and Animals. Dec. 29.

Brown, J. C., B.Sc.—On some Lacustrine Deposits in the Drift near Ferryhill.*

Clephan, R. C., F.S.A.—The Social Life and Literature of Ancient Egypt. Dec. 14.

—Ancient Egypt. (Part 2.)

Gilchrist, Prof. D. A., M.Sc.—Summer Frosts and their Effects on Swedes and Mangels in the North of England.*

Gill, E. L., M.Sc.—Museum Talks on

Winter Migrants; Birds of the Town Moor; English Song Birds; Arms and Legs; Crabs and Lobsters; English Mammals; Whales.

Jackson, A. R., M.B., M.Sc.—The Genus *Tapinocyba*.*

Lebour, Prof. G. A., M.A., F.C.S.—Geological Notes for a Visit to Rothley Crag.*

Meek, A., M.Sc., F.Z.S.—On the Migrations and the Growth of Plaice.*

Richardson, D.—Notes of an old Iron Smelting Furnace at Wheel Birks.*

Robson, J. E., F.E.S.—Appearance and Disappearance of Species among Lepidoptera. Mar. 22.

Turnbull, J. W.—Description of Photographs of Nests and Eggs of British Birds taken by Messrs Cookson. Jan. 11.

Watts, Rev. A., F.G.S.—The History of the Brownie Valley. Nov. 9.

Woolacott, D., D.Sc.—The Geological History of the Rivers of Northumberland and Durham. Feb. 8.

NOTTINGHAM NATURALISTS' SOCIETY,

POOR LAW OFFICES, SHAKESPEARE STREET. (FOUNDED 1852.)

Officers.—*President:* H. Mellish, F.R.M.S. *Hon. Secretary:* Prof. J. W. Carr, M.A., F.L.S., University College.

Meetings.—Second Tuesday in each month at 8 P.M., from October to April inclusive. The Anniversary Meeting takes place during the first fortnight in October.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 5s.; Life Composition, £5.

Publication.—52nd Annual Report and Transactions. Price 1s.

List of Papers read during Session 1904–1905.

Denny, Prof. A., F.L.S.—The Origin and Uses of Colour in Animals. Jan. 10.

Kendall, Prof. P. F., F.G.S.—Man and the Glacial Period. Feb. 14.

Mellish, H., F.R.M.S.—Some Aspects of Meteorology. Nov. 8.

Thornley, Rev. A., M.A., F.L.S.—Gnats and Malaria. Mar. 14.

Wager, H., F.R.S.—The Borderland between Animals and Plants. Dec. 13.

ASHMOLEAN NATURAL HISTORY SOCIETY OF OXFORDSHIRE,

UNIVERSITY MUSEUM, OXFORD.

Officers.—*President*: G. Claridge Druce, M.A., F.L.S. *Secretary*: Mrs V. H. Veley, F.L.S., 20 Bradmore Road.

Meetings.—General Meetings are held at 8 p.m. on alternate Wednesdays in full Term. Annual Meeting first Wednesday in June.

Membership.—Annual Subscription, 5s.; Life Composition, £3, 3s.

Publication.—*Annual Report*, price 1s.

List of Papers read during 1904.

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| <p><i>Balfour, H.</i>, M.A.—Notes from Lapland. Nov. 16.</p> <p><i>Bellamy, F. A.</i>, M.A.—The International Photographic Survey of the Heavens. Nov. 2.</p> <p><i>Carpenter, G. D. H.</i>—Notes on the Larva and Parasites of the Mother of Pearl Moth. Oct. 19.</p> <p><i>Druce, G. C.</i>, M.A.—Trees. June 8.</p> <p><i>Fowler, W. W.</i>, M.A.—Medlicott's Warbler. Nov. 30.</p> <p><i>Friend, Rev. H.</i>—Notes on British Annelids, with Special Reference to Oxford. May 11.</p> <p><i>Gotch, Prof. F.</i>, F.R.S.—A Contribution to Colour Vision. Feb. 24.</p> | <p><i>Kirke, H.</i>, M.A., B.C.L.—Notes on the Natural History and Scenery of British Guiana. Feb. 24.</p> <p><i>Ramsden, Dr W.</i>—A Theory of Bubbles and Emulsions, with Experimental Illustrations. Mar. 9.</p> <p><i>Sollas, Prof. W. J.</i>, F.R.S.—A Method of Studying Fossils by Means of Serial Sections. Apr. 27.</p> <p><i>Tutton, Dr A. E. H.</i>, F.R.S.—Pictures of the Engadine Alps. Dec. 7.</p> <p><i>Veley, Mrs V. H.</i>, F.L.S.—British Frogs, Toads, and Newts. May 26.</p> <p><i>Whitaker, W.</i>, F.G.S., F.R.S.—Geologic Photographs. Mar. 16.</p> |
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READING NATURAL HISTORY SOCIETY.

(FOUNDED 1881.)

Officers.—*President*: Canon Fowler, D.Sc, F.L.S., F.E.S. *Hon. Secretary and Treasurer*: F. W. Leslie, F.L.S., Market Place Chambers, Reading.

Meetings.—Alternate Thursdays during the Winter at 8 p.m., and Field Meeting during Summer. The Anniversary Meeting is held in October.

Membership.—Annual Subscription, 3s. 6d.

Papers read during Session 1904–1905.

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| <p><i>Bellamy, F. A.</i>, M.A., F.R.A.S.—The International Photographic Survey of the Heavens. Nov. 17.</p> <p><i>Brown, E.</i>, F.L.S.—The Colouration of Eggs. Feb. 23.</p> <p><i>Druce, G. C.</i>, M.A., F.L.S.—A Visit to Greece and Turkey. Dec. 8.</p> <p><i>Fowler, Rev. Canon</i>, D.Sc., F.L.S., F.E.S.—Ants and their Ways. Feb. 9.</p> | <p><i>Galt, A. S.</i>—The Beginnings of Plant Parasitism. May 4.</p> <p><i>Groom, Dr T.</i>, M.A., D.Sc.—The Life-History of a Barnacle. Mar. 16.</p> <p><i>Morice, Rev. F. D.</i>, M.A., F.E.S.—Wasps. Oct. 13.</p> <p><i>Rowntree, W. S.</i>, B.Sc., F.L.S.—Fishes. Oct. 27.</p> <p><i>Wallis, H. M.</i>—The Valais. Apr. 6.</p> <p><i>Wardall, F.</i>—A Naturalist's Optical Equipment. Jan. 26.</p> |
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RIPON NATURALISTS' CLUB AND SCIENTIFIC AND LITERARY ASSOCIATION,

MUSEUM, PARK STREET, RIPON. (FOUNDED 1882.)

Officers.—*Hon. Secretary*: B. M. Smith, Dulce Domum.

This Society is at present in abeyance.

RUGBY SCHOOL NATURAL HISTORY SOCIETY, RUGBY SCHOOL.

Officer.—*President*: Rev. F. S. Williams. *Secretary*:
A. H. Maude, 3 Barby Road.

Meetings.—Alternate Saturdays at 7.45 p.m., during Advent and Lent Terms.
Field Expeditions during the Summer Term.

Membership.—Subscription, 3s. 6d. per term; Composition Fee, 15s.

Publication.—Annual Report of Rugby School Natural History Society
for 1904, price 1s.

List of Papers read during Session 1904–1905.

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| <p><i>Dukes, Dr.</i>—Food in its Relation to Training. Oct. 22. <i>Kelsall, Rev. J. E.</i>—British Birds, especially Winter Migrants. Oct. 8.</p> | <p><i>Poultton, Prof.</i>—Mimicry. Nov. 5. <i>Temple, F. C.</i>—The Welsh Water-works for Birmingham. Nov. 19.</p> |
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SHEFFIELD MICROSCOPICAL SOCIETY,

LEOPOLD STREET. (FOUNDED 1877.)

Officers.—*President*: Dr Godfrey Carter, M.B., M.R.C.P. *Hon. Secretary*: J. Austen, 27 High Street.

Meetings.—Twice a month, from October to May inclusive, at 8 p.m., at the Literary and Philosophical Society's Rooms, Leopold Street. The Anniversary Meeting takes place in September.

Membership.—Annual Subscription, 5s.

*Papers read during Session 1904–1905. Abstracts appear in
"Transactions."*

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| <p><i>Cole, T. S.</i>—Photomicrography. Apr. 20. <i>Denny, Prof. A.</i>, F.L.S.—The Problems of Reproduction and Heredity. Feb. 24. <i>Doncaster, L.</i>, M.A.—The Colour of Animals. Jan. 5. <i>Harrison, F.</i>, M.R.C.S.—Dental Hygiene. Jan. 19. <i>Jenkinson, W.</i>—Some Means of Protection and Direction in a Blind Insect. Mar. 23.</p> | <p><i>MacDonald, Prof. J. S.</i>, B.A., L.R.C.P.—The Microscopic Structure of the Reflex Arc. Dec. 2. <i>Porter, Dr C.</i>, B.Sc.—Some Animal Parasites of the Blood. Apr. 7. <i>Waddy, Dr F. H.</i>, D.P.H.—The Fascinating Tale of a Tape-Worm. Dec. 16. <i>Wardall, F.</i>—The Achromatisation of Objectives. Nov. 24.</p> |
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SOUTH-EASTERN UNION OF SCIENTIFIC SOCIETIES,

33 UPPER GROSVENOR ROAD, TUNBRIDGE WELLS.
(ESTABLISHED 1896.)

Officers.—*President* : F. Rudler, I.S.O. *General Secretary* : Rev. R. A. Bullen, Pyrford Vicarage, Woking.

Membership.—Annual Subscription for Affiliated Societies not less than 5s. There are 40 Affiliated Societies.

*Papers read at the Tenth Annual Congress held at Reigate
in June 1905.*

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| <p><i>Kennard, A. S.</i>—The Land and Fresh Water Shells of South East England.</p> <p><i>Kerr, R.</i>, F.G.S.—On Tesla's High Voltage Experiment.</p> <p><i>Martin, Dr W.</i>—The Law of Treasure</p> | <p>Trove as it Affects Archæological Research.</p> <p><i>Saunders, Miss.</i>—Mendel's Law.</p> <p><i>Welchman, R. H.</i>, B.A., and <i>C. E. Salmon</i>, F.L.S.—The Flora of Reigate and District.</p> |
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SOUTHPORT SOCIETY OF NATURAL SCIENCE,

QUEEN'S HALL, NEVILL STREET. (FOUNDED 1890.)

Officers.—*President* : R. J. Parkes. *Hon. Treasurer* : J. M. Petrie. *Hon. Secretary* : G. H. Hibbott, Briercliff, 156 Sussex Road, Southport. *Hon. Librarian* : C. A. Adams, 171 Lord Street, Southport.

Meetings.—Held during the Winter, on the second Thursday of each month, from October to April inclusive. Field Meetings held at intervals during the Summer. The Annual Meeting takes place on the second Thursday in April.

Membership.—Annual Subscription, 5s.; no Entrance Fee.

Publication.—*Annual Report*, price 1s. 6d. (free to Members).

List of Papers read during Session 1904–1905.

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| <p><i>Baillon, F. J.</i>, M.B.—Some Recent Developments in Physical Science. Oct. 13.</p> <p><i>Ball, H.</i>—Notes on the Flora of the Birkdale Sandhills. Nov. 10.</p> <p><i>Dickson, E.</i>, F.G.S.—The Physical Structure of the Lake District. Dec. 8.</p> | <p><i>Hargreaves, R.</i>, M.A.—Circuits. Jan. 12.</p> <p><i>Newstead, R.</i>, A.L.S., F.E.S.—St Kilda: its People and its Natural History. Mar. 30.</p> <p><i>Quayle, A.</i>—Plant, or Animal? Mar. 9.</p> |
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TEIGN NATURALISTS' FIELD CLUB.

Officers.—*President* : R. Bernard. *Hon. Secretary* : P. F. S. Amery, Druid, Ashburton, Devon.

Meetings.—Monthly Field Meetings during the Summer. The Anniversary Meeting takes place in April.

Membership.—Number limited to 120 (admitted by ballot); no Entrance Fee; Annual Subscription, 2s. 6d.

List of Papers read during Summer Session 1904.

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| <p><i>Adams, Maxwell.</i>—Historical Association of Ford House. Apr. 12. <i>—</i> The Manor of Cornwood and Connection of Fardell with Sir Walter Raleigh. May 10.</p> | <p><i>Amery, P. F. S.</i>—Ram Roasting at Holm on Old Midsummer Day. July 5. <i>Brookes, R., F.S.A.</i>—Throwleigh and its Church. Aug. 9.</p> |
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TORQUAY NATURAL HISTORY SOCIETY,

MUSEUM, BABBACOMBE ROAD. (FOUNDED 1844.)

Officers.—*President*: Rev. A. E. Northey, M.A. *Hon. Secretary*: Alex. Somervail.

Meetings.—Second Wednesday in each month at 8.30 P.M. The Annual Meeting is held on the last Wednesday in May.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 21s.

List of Papers read during Session 1904–1905.

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| <p><i>Almy, P. H. W.</i>—Peter Pindar of Kingsbridge. Nov. 9. <i>Atkins, A. H., B.Sc.</i>—Dudley Castle Hill and the Wren's Nest. Oct. 26. <i>Bessell, I. B.</i>—Local Diatoms. Sept. 14. <i>Elwes, Major.</i>—The Fauna of the Shore near High Water Mark. Jan. 11. <i>Hunt, A. R., M.A.</i>—Recent Opinions on the S. Devon Schists. Feb. 8. <i>Jones, W. M., M.D.</i>—Early Education and its Object. June 8.</p> | <p><i>Jukes-Browne, A. J., B.A., F.G.S.</i>—The Geology of Cyprus. Mar. 8. <i>Julian, H. F.</i>—Electrolysis, or what happens when Metals Corrode. Aug. 10. <i>Lowe, H. J., F.G.S.</i>—A Critical Examination of some Teign Valley Questions. July 13. <i>March, F., F.R.Met.Soc.</i>—Torquay's Climatic Advantages. Apr. 12. <i>Northey, Rev. A. E., M.A.</i>—Cyprus, Ancient and Modern. May 10. <i>Somervail, A.</i>—On Chalk Fossils from the Beer Head District. Dec. 14.</p> |
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WARRINGTON FIELD CLUB,

THE MUSEUM, BOLD STREET.

Officers.—*President*: John Fairhurst. *Secretary*: A. J. Jolley, 16 Arpley Street, Warrington.

Meetings.—First and third Fridays in each month from October to March inclusive, and irregularly during the Summer. The Annual Meeting takes place on the third Friday in March.

Membership.—Annual Subscription, 2s.

List of Papers read during Session 1904–1905.

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| <p><i>Howarth, J. W.</i>—A Dragon Fly's Wing. Mar. 17. <i>Jackson, J. A.</i>—The Swallow. Jan. 20.</p> | <p><i>Smith, J., M.R.I.A.</i>—Zoophytes: their Life-History. Feb. 3.</p> |
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WOOLHOPE NATURALISTS' FIELD CLUB, FREE LIBRARY, HEREFORD.

Officers.—*President*: P. Baylis, M.A., LL.M., F.Z.S. *Hon. Secretary*: H. C. Moore, 26 Broad Street, Hereford.

Meetings.—Four Field Meetings during the Summer months, a General Meeting in the early part of the year, also in December, and other Meetings when specially called for.

Membership.—Entrance Fee, 10s. ; Annual Subscription, 10s.

Publication.—*Transactions of the Woolhope Naturalists' Field Club* from April 1902 to December 1904.

Papers read during 1904, and published in the "Transactions."

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| <p><i>Aldis, T. S.</i>—Drift in the Wye Valley. Aug.</p> <p><i>Bannister, Rev. A. T.</i>—The Herefordshire Domesday. Aug.</p> <p>—The Hereford Miracles. Dec.</p> <p><i>Baylis, P.</i>—Tintern Abbey. July.</p> <p><i>Blashill, T.</i>—The Occurrence of the Mistletoe in Herefordshire upon the Plum and the Peach. May.</p> <p><i>Clarke, R.</i>—Cleobury Mortimer Church. Aug.</p> <p><i>Grindley, Rev. H. E.</i>—Further Notes on Ice Action, and on Ancient Drainage Systems connected with the Wye Valley. Dec.</p> <p><i>Ley, Rev. A.</i>—Obituary Notice: the late Rev. W. H. Purchas, Joint Author of <i>Flora of Herefordshire</i>. Aug.</p> <p><i>Lilwell, C. I.</i>—Craswall Priory and Craswall Church. June.</p> <p><i>Lloyd, J. W.</i>—Notes on Rowe Ditch. May.</p> <p><i>Lloyd, J.</i>—Craswall Manor. June.</p> <p><i>Marshall, G.</i>—The Discovery of a Columbarium in the Tower of Sarnesfield Church. May.</p> | <p><i>Moore, H. C.</i>—Landslip in the Woolhope District.</p> <p>—Notes on Offa's Dyke, Watt's Dyke, and Rowe Ditch. May.</p> <p>—Notes on Craswall Priory, and Excavations. June.</p> <p>—Drifts in Herefordshire, and Evidence of Glacial Action. Aug.</p> <p>—Rainfall in Herefordshire in 1904. Dec.</p> <p><i>Morgan, Rev. W. E. T.</i>—Place-Names of the Neighbourhood of Hay. June.</p> <p><i>Pilley, J. B.</i>—The Goshawk. Dec.</p> <p><i>Warner, Rev. R. H.</i>—Almeley Castle and Church. May.</p> <p>—Eardisley and its Castle. May.</p> <p><i>Watkins, A.</i>—Offa's Dyke: the Gap in the Weobley District. May.</p> <p>—Additional Notes on Pigeon Houses. May.</p> <p><i>Wood, J. G.</i>—Notes on the Rowe Ditch in Radnorshire, Offa's Dyke, and Watt's Dyke. May.</p> <p>—Things to be observed between Ross and Chepstow. July.</p> <p>—A Short History of Tintern Abbey. July.</p> |
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SCOTLAND.

ANDERSONIAN NATURALISTS' SOCIETY,

ANDERSONIAN BUILDINGS, 204 GEORGE STREET, GLASGOW.

Officers.—*President*: John Wood. *Hon. Secretaries*: R. B. Johnstope, 70 Cambridge Drive, Glasgow; J. Nisbet, M.A., 43 Garthland Drive, Dennistoun, Glasgow.

Meetings.—First Friday in each month at 8 P.M. The Annual Meeting is in February.

Membership.—No Entrance Fee; Annual Subscription, 2s. 6d.

List of Papers read during Session 1904–1905.

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| <p><i>Boyd, J.</i>—The Last of Pollok Wych Elms. Apr. 7.</p> <p><i>Brown, W.</i>—The Rallidæ, with Special Reference to <i>Rallus aquaticus</i>. Oct. 7.</p> <p><i>Elliot, G. F. S., M.A., F.L.S.</i>—Notes on Chile. Nov. 4.</p> <p><i>Ewing, Mrs.</i>—Report of the Proceedings of the British Association at Cambridge. Sept. 2.</p> <p><i>Fingland, Mrs.</i>—Notes on some Canadian Plants. May 5.</p> <p><i>Johnstone, R. B.</i>—Report of the Fungus Forays. Dec. 2.</p> | <p><i>Murdoch, A.</i>—Notes on Sea-Gulls. June 2.</p> <p><i>Nisbet, T., M.A.</i>—Notes on Adaptations in Plants. July 1.</p> <p><i>Paterson, J.</i>—List of Arrivals of Summer Migrants. May 5.</p> <p><i>Reid, C.</i>—Birds and Birds' Nests. Mar. 3.</p> <p><i>Robbie, Miss P. B.</i>—Notes on the Flora of Iona. Aug. 5.</p> <p><i>Service, R., M.B.O.U.</i>—The Ornithological Rarities of the Solway Area. Dec. 2.</p> |
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BOTANICAL SOCIETY OF EDINBURGH,

5 ST ANDREW SQUARE.

Officers.—*President*: Prof. J. B. Balfour, M.A., M.D., D.Sc. *Hon. Secretary*: Dr W. Craig, F.R.S.E. *Assistant-Secretary*: W. W. Smith, Royal Botanic Gardens.

Meetings.—Second Thursday in each month, from November to July inclusive, at 7.45 P.M. in November, January, and March, 4 P.M. in December, February, and April, and 5 P.M. in May, June, and July.

Membership.—Annual Subscription, 15s.

Publication.—*Transactions and Proceedings*, price 5s.

List of Papers read during Session 1904–1905, and published in Vol. XXIII., Part 1, of "Transactions."

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| <p><i>Boyd, W. B.</i>—An Obituary Notice of the late Dr Andrew Peebles Aitken, D.Sc.</p> <p><i>Brown, R. N. R.</i>—The Botany of the South Orkneys.</p> <p><i>Cocks, L. J.</i>—The Mosses and Hepatics Collected during Excursion of Scottish Alpine Botanical Club, 1904.</p> <p><i>Cowan, A.</i>—Report of Scottish Alpine Botanical Club, 1904.</p> <p><i>Darbishire, O. V.</i>—The Lichens of the South Orkneys.</p> <p><i>Joannides, O.</i>—Note on Life-History of <i>Puccinia graminis</i>.</p> <p><i>Morrison, Dr.</i>—On <i>Drosera Banksii</i>, R. Br.</p> | <p><i>Nicolson, J. G.</i>—Notes on some Rare Caithness Plants.</p> <p><i>Smith, W. W.</i>—Note on <i>Arenaria tenuifolia</i>, Linn., as a Scottish Plant.</p> <p><i>Trail, Prof. J. W. M.</i>—Herbaria and Biology: An Address.</p> <p><i>West, W., and Prof. G. S. West.</i>—Freshwater Algae from the Orkneys and Shetlands.</p> <p><i>Wright, C. H.</i>—Mosses of the South Orkneys.</p> <p><i>Young, W.</i>—The Hepatics of the Glenshee District.</p> <p>— The Alpine Flora and Rarer Plants of the Glenshee District.</p> |
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EDINBURGH FIELD NATURALISTS' AND MICROSCOPICAL SOCIETY,

THE HALL, 20 GEORGE STREET. (INSTITUTED 1869.)

Officers.—*President*: James Russell. *Hon. Secretary*: John Thomson, 141 Comiston Road, Edinburgh.

Evening Meetings.—Fourth Wednesday in each month, from November to April, at 8 P.M. Microscopical Section, fortnightly in Winter. Field Meetings, weekly in May, June, and July inclusive. The Anniversary Meeting takes place in October.

Membership.—No Entrance Fee; Annual Subscription, 5s.; Life Members, £3, 3s.

Publication.—*Transactions*, Vol. V., Part 2 (price 4s.).

Papers read during Session 1904–1905; to be published in "Transactions."

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| <i>Blanc, H. J.</i> , R.S.A.—Melrose Abbey. Feb. 22. | <i>Pursell, J.</i> —Work in a Canadian Orchard. Jan. 25. |
| <i>Borland, Rev. R.</i> —The Yarrow District and its Associations. Nov. 23. | <i>Scott, T.</i> , LL.D., F.L.S.—An Account of some Copepods that Live as Parasites on, or Messmates with, other Invertebrata. Mar. 22. |
| <i>Boyd, D. A.</i> —Largo and its Surroundings. Apr. 26. | <i>Service, R.</i> —Some Changes in the Avifauna of the Solway Area. Jan. 25. |
| <i>Crawford, W. C.</i> —The Aims of Field Club Excursions. Apr. 26. | <i>Sprague, Miss B.</i> —Flints from a Workshop of Neolithic Man. Dec. 21. |
| <i>Fraser, J.</i> —List of Alien Plants Gathered during 1903–04, in the Neighbourhood of Edinburgh, by Members of the Society. Oct. 26. | <i>Staig, R. A.</i> —Nature Study and the Citizen. Mar. 22. |
| <i>Goodchild, J. G.</i> —Corals and Coral Reefs. Dec. 21. | <i>West, G. T.</i> —Remarks on <i>Gloeocapsa</i> . Oct. 26. |
| — Some of the Animals from the Upper "Elf Loch" projected from Life by the Lantern Microscope. Apr. 26. | <i>Wilson, W.</i> —Note on the Whortleberries. Jan. 25. |
| <i>Herbert, A. B.</i> —Short Note on the Utility of the Tit Tribe. Mar. 22. | — Short Note on <i>Linnaea borealis</i> . Feb. 22. |

SCOTTISH MICROSCOPICAL SOCIETY,

PHILOSOPHICAL INSTITUTION, 4 QUEEN STREET, EDINBURGH.

Officers.—*President*: W. C. Crawford, F.R.S.E. *Secretaries*: W. G. Aitchison-Robertson, M.D., D.Sc., 26 Minto Street, Edinburgh; J. A. Terras, 21 Teviot Place, Edinburgh.

Meetings.—Second Friday of each month, from November to June, at 8 P.M. The Annual General Meeting is in June.

Membership.—No Entrance Fee. Annual Subscription, 10s. 6d.

Publication.—*Proceedings*, published each Autumn, 5s.

List of Papers read during Session 1904–1905.

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| <i>Borthwick, Dr A. W.</i> —Fungoid Diseases in Plants. Feb. 10. | <i>Frazer, A.</i> , M.A.—A Simple Form of Steam Sterilizer. Dec. 9. |
| — Useful and Injurious Forest Insects. Mar. 10. | <i>Hunter, Prof. J.</i> , F.R.C.S.E.—The Use of the Apertometer. Dec. 9. |
| <i>Crawford, J. C.</i> , F.R.S.E.—The Microscope as an Instrument in Social Progress and Culture. (Presidential Address.) Nov. 18. | <i>Purves, Dr G. C.</i> , M.D., B.Sc.—On Malignant Disease. Dec. 9. |
| <i>Dunstan, Prof. J.</i> —On Trypanosomes in Disease. Feb. 10. | <i>Terras, J. A.</i> , B.Sc.—The Flora of Distillery Effluents. Mar. 10. |

SCOTTISH NATURAL HISTORY SOCIETY,

5 QUEEN STREET, EDINBURGH.

Officers.—*President*: B. N. Peach, LL.D., F.R.SS. L. & E., F.S.S. *Secretary*: A. W. Russell, M.A., 23 Castle Street, Edinburgh.

Meetings.—First Thursday of the month, at 8 P.M., unless otherwise stated. Field Meetings on alternate Saturdays in the Summer.

Membership.—Annual Contribution, 5s.; Composition Fee, £2, 10s. No Entrance Fee.

Publication.—*Transactions*, published annually, 5s. per volume. Separate copies of each communication in pamphlet form may also be had, by arrangement, shortly after the reading of the paper.

List of Papers read during Session 1904–1905.

Dobbie, J. B., F.R.S.E., F.Z.S., M.B.O.U.—Altes und Neues aus dem Haushalte des Kuckucks. Jan. 5.

Dunstan, Prof. J., M.R.C.V.S., F.R.S.E.—Trypanosomes: their Hosts and some Diseases they Produce, including Sleeping Sickness. June 2.

Goodchild, J. G., F.G.S., F.Z.S.—The Deserts of the World. Apr. 7.

Macmillan, J., D.Sc., M.B., C.M., F.R.S.E.—Immunity. July 7.

Mears, J. B.—Photography and Nature. Oct. 6.

Munro, R., M.D., LL.D., F.R.S.E.—Altruism in Man and Animals. Nov. 3.

Newbigin, Miss M. I., D.Sc.—Notes on the Scenery and Flora of the Alps. Dec. 1.

Story, F.—Forestry and Forest Life in Germany. May 5.

Thomson, Prof. J. A.—Some Unsolved Problems of Bird Life. Feb. 2.

DUNDEE NATURALISTS' SOCIETY,

UNIVERSITY COLLEGE. (FOUNDED 1872.)

Officers.—*President*: Prof. E. W. Reid, B.A., F.R.S. *Hon. Secretary*: J. B. Corr, 5 Gowrie Place.

Membership.—No Entrance Fee; Annual Subscription, 5s.

The Meetings of this Society have been suspended for some time. An effort is being made to secure new premises.

DUNFERMLINE NATURALISTS' SOCIETY,

LAUDER TECHNICAL SCHOOL.

(FOUNDED NOVEMBER 1902.)

Officers.—*President*: Henry Beveridge, F.S.A. Scot. *Hon. Secretary*: R. Somerville, B.Sc., 82 James Street.

Objects.—To promote the Study of all Branches of Natural Science, and to investigate the Natural History of the Locality.

Meetings.—Monthly, on second Tuesday, at 8 P.M. The Annual Meeting is in April.

Membership.—Annual Subscription: Ordinary Members, 5s.; Associates and Junior Members, 2s. 6d.; Life Membership Fee, £5.

List of Papers read during Session 1904–1905.

- Adams, J.*, F.R.M.S.—The Currant Gall-Mite, *Phytoptus ribes*. May 9.
- Beveridge, H.*, F.S.A. Scot. — The Present Land Surface of Scotland as Shaped by Recent Geological Agencies. Oct. 11.
- Brown, R. R.*, B.Sc. — The Scottish National Antarctic Expedition. Dec. 15.
- Cuthell, J. M.*, F.E.I.S.—Marine Shells and their Inmates. Mar. 14.
- Dunlop, R.*—Touring in New Zealand (North Island); its Hot Springs and Natural History. Dec. 13.
- Hardy, M.*—Regional Survey by Co-operation. Jan. 10.
- Newbigin, Miss M. I.*, D.Sc.—The Scenery and Flora of the Alps. Feb. 14.
- Somerville, R.*, B.Sc. — The Water Beetle, *Dytiscus marginalis*. Sept. 13.
- Wilson, Rev. A. S.*, M.A., B.Sc.—Galls, Gall-Makers, and Cuckoo Flies. Nov. 8.

NATURAL HISTORY SOCIETY OF GLASGOW,

207 BATH STREET. (FOUNDED 1851.)

Officers.—*President*: Peter Ewing, F.L.S. *Hon. Secretary*: A. Ross, 2 Kenny-hill Gardens.

Meetings.—Ordinary Meetings are held on the last Tuesday of each month, except July, at 8 p.m. The Anniversary Meeting takes place in October.

Membership.—Annual Subscription, 7s. 6d.; Life Composition, £5.

Publication.—*Transactions*, Vol. VII. (New Series), Part 1. (1902–1903.)

List of Papers read during the last Session.

- Ballantine, J.*—Coal and its Origin. Feb. 23.
- Boyd, D. A.*—Bryological Notes. May 30.
- Brown, R.*, M.D.—The Engadine, with Specimens of its Varied Flora. Jan. 31.
- Eggleton, J.*—The Occurrence of Risso's Dolphin (*Grampus griseus*, Cuvier) at Kincardine-on-Forth. Dec. 22.
- Garry, R.*, B.Sc.—Note on Methods for Preparing Microscopic Slides of *Spirogyra* and other Fresh Water Algae. Apr. 26.
- Henderson, R.*—Additions to the Records of the Clyde Diptera. May 31.
- Kerr, J. G.*, M.A.—The Evolutionary History of certain Organs of the Vertebrata. Apr. 28.
- Laurie, M.*, B.A., D.Sc. — Scorpions, Past and Present. Jan. 26.
- Renwick, J.*—Notes on the Trees in Auchendrane, Ayrshire. Mar. 23.
- Service, R.*—The *Sylviidae* of Solway. Feb. 19.
- Smith, J.*—On the Occurrence of Conodonts in the Arenig-Llandeilo Formations of the Southern Uplands of Scotland. Oct. 19.
- Stewart, W.*—Report on the 29th Annual Meeting of the Cryptogamic Society of Scotland. Oct. 19.
- Todd, G. B.*, M.B., C.M.—Miner's Worm Disease. Mar. 29.
- Watt, H. B.*—The Land Mammals of the Clyde Faunal Area. June 23.
- Watt, L.*—The Heaths of Connemara, and Plants from County Galway. May 26.
- White, J. W.*, F.L.S.—A Botanical Visit to the Balearic Islands in April last. Dec. 22.
- Whitton, J.*—Meteorological Notes and Remarks upon the Weather during the Year 1903, with its General Effects upon Vegetation. May 31.
- Wishart, R. S.*, M.A. — Some East Fife Flowers. Mar. 23.

GREENOCK NATURAL HISTORY SOCIETY,

WATT INSTITUTION, KELLY STREET. (FOUNDED 1878.)

Officers.—*President*: Dr J. K. Robertson. *Hon. Secretary*: W. N. Niven,
23 Newton Street.**Meetings.**—Last Monday in each Winter month at 8.15 p.m. The Annual
Meeting takes place in September.**Membership.**—No Entrance Fee; Annual Subscription, 5s.

[No Return.]

KIRKCALDY NATURALISTS' SOCIETY,

196 HIGH STREET. (FOUNDED 1882.)

Officers.—*President*: David Storrar. *Hon. Secretaries*: William Young,
F.B.S.Ed., Fairview; S. Stewart, F.I.C., 2 Salisbury Street.**Meetings.**—Fortnightly, on Tuesdays, at 8 p.m. The Anniversary Meeting
takes place in April.**Membership.**—Number of Members, 145; no Entrance Fee; Annual Subscrip-
tion: Members, 5s; Associates (under 18), 2s.; Life Composition, £2, 10s.**Publication.**—*Report of Council and List of Members.**List of Papers read during Session 1904–1905.*

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| <i>Clark, A.</i> , A.M.I.C.E.—The Tram and Road Cars of the Future. Dec. 6. | <i>Somerville, R.</i> , B.Sc.—Coal Gas: its History, Manufacture, and Uses. Mar. 24. |
| <i>Gray, Prof. T.</i> , Ph.D., D.Sc.—The Evolution of the Lucifer Match. Nov. 25. | <i>Stewart, S.</i> , F.I.C.—A Week in Spain. Apr. 20. |
| <i>Ingle, Dr H.</i> , F.I.C., B.Sc.—Coal Tar and its Products. Dec. 20. | <i>Tosh, Dr J. R.</i> , M.A.—Marine Zoology. (Four Lectures.) Jan.–Mar. |

**MARINE BIOLOGICAL ASSOCIATION OF THE WEST
OF SCOTLAND (NEW CONSTITUTION, 1901),**

KEPPEL PIER, MILLPORT, ISLAND OF CUMBRAE, N.B.

(FOUNDED 1893.)

Officers.—*President*: James F. Gemmill, M.A., M.D. *Hon. Treasurer*: James
H. Parker, C.A., B.L., 89 West Regent Street, Glasgow. *Hon. Secretary*:
John A. Todd, B.L., 190 West George Street, Glasgow. *Director*: Stephen
Pace, Marine Station, Millport.**Meetings.**—The Annual Meeting takes place in February.**Maintenance.**—From Fees charged for use of Laboratory Tables, Admission to
Robertson Museum and Aquarium (3d. each), and Membership Subscrip-
tions (minimum 21s.) and Donations.**Publication.**—*Annual Report.*

PERTHSHIRE SOCIETY OF NATURAL SCIENCE,

TAY STREET, PERTH. (FOUNDED MARCH 1867.)

Officers.—*President*: Henry Coates, F.R.S.E. *Secretary*: S. T. Ellison, 56 South Methven Street.

Meetings.—Second Thursday in each month at 8 P.M., from November to April inclusive. Excursions are made in Summer. The Anniversary Meeting takes place in March.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 5s. 6d.

Publication.—*Transactions*, Vol. IV., Part 1, 1904, 1s. 6d.

List of Papers read during Session 1904–1905.

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| <i>Bates, G. F.</i> , B.A.—The Mechanics of Plants. Dec. 8. | <i>Macgregor, Miss M.</i> —The Carpathians. Feb. 9. |
| <i>Bruce, W. S.</i> , F.S.G.S.—The Voyage of the <i>Scotia</i> . Jan. 12. | <i>Storrar, D.</i> , J.P. — Radium. Nov. 10. |
| <i>Dow, R.</i> —The Agates of the Sidlaws. Apr. 13. | <i>Whyte, W.</i> — Nesting of the Great Crested Grebe in Perthshire. Feb. 9. |
| <i>Knight, Rev. G. A. F.</i> , M.A.—The Phenomenon of Sinistral Shells. Apr., 13. | |

IRELAND.**ROYAL ZOOLOGICAL SOCIETY OF IRELAND,**

PHŒNIX PARK, DUBLIN. (FOUNDED 1831.)

Officers.—*President*: His Excellency the Lord-Lieutenant of Ireland, the Earl of Dudley. *Secretary*: Dr R. F. Scharff, National Museum, Dublin.

Meetings.—The Council meets every Saturday at 9 A.M. Anniversary Meeting last Tuesday in January.

Membership.—Entrance Fee, £1; Annual Subscription, £1.

Publications.—73rd *Annual Report*; Monthly Record of Progress in *Irish Naturalist*; *Sketch of the Origin and Early History of the Society*.

DUBLIN UNIVERSITY BIOLOGICAL ASSOCIATION,

TRINITY PLACE, NEW BUILDINGS, TRINITY COLLEGE.

Officers.—*President*: Prof. A. F. Dixon, M.B., D.Sc. *Secretary*: S. Haughton, 26 Trinity College, Dublin.

Meetings.—On alternate Thursdays from November to end of March. The Annual Meeting is held during November.

Membership.—No Entrance Fee; Annual Subscription, 5s.

Publications.—*Asepsis. The Distribution of the Peripheral Nerves. The Anatomy of a Sireno Melian Monster.*

*List of Papers read during Session 1904–1905. Those marked * have been published.*

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| <p><i>Brooke, B. G.</i>—Paratyphoid Fever. <i>Dixon, Prof. A. F.</i>—The Distribution of the Peripheral Nerves.* <i>Ellison, F. O'B.</i>—Bacterial Invasion of Plants. <i>Galway, R.</i>—Acute Ant: Poliomyelitis in an Adult. <i>Gordon, Dr T. G.</i>—Treatment of Gastric Ulcer.</p> | <p><i>Haughton, Dr W. S.</i>—Asepsis.* <i>Haughton, S.</i>—Hernia Cerebelli, following on Otitis Media. <i>Moorhead, Dr T. G.</i>—The Anatomy of a Sireno Melian Monster.* <i>Oldham, R. S.</i>—Sleep. <i>Thompson, Prof. W. H.</i>—Effect of Anæsthetics on Renal Activity.</p> |
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DUBLIN MICROSCOPICAL CLUB,

ROYAL DUBLIN SOCIETY HOUSE, KILDARE STREET.

Officers.—*President*: R. F. Scharf, Ph.D. *Secretary*: F. W. Moore, A.L.S., Royal Botanic Gardens, Glasnevin, County Dublin.

Meetings.—Ordinary Meetings are held on the second Wednesday in each month, from October to May inclusive, in the Council Room of the Royal Dublin Society, Kildare Street. The Proceedings are reported monthly in the *Irish Naturalist*.

Membership.—Annual Subscription, 10s.

DUBLIN NATURALISTS' FIELD CLUB,

ROYAL IRISH ACADEMY, 19 DAWSON STREET.

Officers.—*President*: F. W. Burbidge, M.A. *Hon. Secretaries*: J. de W. Hinch, National Library; F. O'B. Ellison, B.A., 7 Sallymount Avenue.

Meetings.—Second Tuesday in month, November to April. Excursions in Summer and Winter months. The Annual Meeting is in January.

Membership.—Entrance Fee: Members, 5s.; Associate Members, none.

Annual Subscription, 5s. (Members); 2s. 6d. Associate Members.

Publication.—*Annual Report*, January 1905.

*List of Papers read during Session 1904–1905. Those marked * are published in the "Irish Naturalist," monthly, 6d.*

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| <p><i>Adams, J., M.A.</i>—On the Vitality of Seeds. Feb. 28.* <i>Ellison, F. O'B., B.A.</i>—Symbiosis. Dec. 13. <i>Houston, D., F.L.S.</i>—The Flowers of Howth. Apr. 11. <i>Knowles, Miss M. C.</i>—<i>Atropis foucaudi</i> in Ireland. Feb. 28.*</p> | <p><i>Matley, C. A., D.Sc.</i>—The British Association Geological Lantern Slides. Nov. 22. <i>Moffat, C. B., M.A.</i>—The Duration of Flight among Bats. Mar. 21.* <i>Praeger, R. L., B.A.</i>—Additions to Irish Topographical Flora during 1904. Nov. 22.*</p> |
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IRISH FIELD CLUB UNION.

(FOUNDED 1895.)

Officer.—*Secretary*: R. L. Praeger, National Library of Ireland, Dublin.

The Irish Field Club Union is formed by a coalition of the Naturalists' Field Clubs of Belfast, Dublin, Cork, and Limerick, and is managed by a Joint Committee. Its object is to encourage the study of Natural Science in Ireland, and to promote mutual intercourse between the Irish Field Clubs.

SECTION VI.

ECONOMIC SCIENCE AND STATISTICS.

LONDON.

ROYAL STATISTICAL SOCIETY,

9 ADELPHI TERRACE, STRAND, W.C. (FOUNDED 1834. INCORPORATED BY ROYAL CHARTER, 1887.)

Officers.—*President*: The Right Hon. The Earl of Onslow, G.C.M.G. *Treasurer*: R. B. Martin, M.A., M.P. *Hon. Secretaries*: Sir J. A. Baines, C.S.I.; R. Henry Rew; and A. W. Fox, C.B. *Hon. Foreign Secretary*: Sir J. A. Baines, C.S.I. *Assistant Secretary*: J. A. Cable, B.A. *Chief Clerk and Librarian*: J. A. P. Mackenzie.

Meetings.—Third Tuesday in each month, from November to June, generally at the Society's Rooms, at 5 P.M. The General Meeting takes place in June.

Membership.—No Entrance Fee; Annual Subscription, Two Guineas; Composition Fee, 20 Guineas.

*List of Papers contributed during Session 1904–1905, and published in the quarterly "Journal," price 5s. Those marked * were not read before the Society, but appear in the "Journal" for the months stated.*

Adam, T.—Life Table for Scotland, based on the Census Enumerations of 1891 and 1901, and on the Recorded Deaths for the Decennium 1891–1900. Sept.*

Baines, J. A.—The International Statistical Institute. Sept.*

—The Geographical Distribution of the Population in India. Dec.*

Bowley, A. L., and G. H. Wood.—The Statistics of Wages in the United Kingdom during the last Hundred Years. Part X.—Engineering and Shipbuilding. A.—Trade Union Standard Rates. Mar.*

Dudfield, R.—A Critical Examination of the Methods of Recording and Publishing Statistical Data bearing on Public Health, and Suggestions for the Improvement of such Methods. Mar.

Fehlinger, H.—The Austrian Census of Occupations, 1900. Dec.*

Gladwell, S. W.—A Statistical View of the Workmen's Compensation Act Committee's Report. Dec.*

Harper, E. J.—Statistics of London Traffic. June.

Hutchins, Miss B. L.—A Note on the Distribution of Women in Occupations. Sept.*

—Note on the Distribution of Married Women in Relation to the Birth-Rate. Mar.*

Mahaim, Prof. E.—Changes in Wages, and Real Wages in Belgium, Sept.*

Palgrave, R. H. J.—Estimates of Agricultural Losses in the United Kingdom during the last Thirty Years. Mar.

Powell, Sir F. S., Bart., M.P.—Presidential Address. Nov. 15.

Price, L. L.—The Accounts of the Colleges of Oxford, 1893–1903, with Special Reference to their Agricultural Revenues. Dec.

Rew, R. H.—Observations on the Production and Consumption of Meat and Dairy Products. Sept.

Sauerbeck, A.—Prices of Commodities in 1904. Mar.*

Thompson, R. J.—Local Expenditure and Local Indebtedness in England and Wales. Sept.

Tozer, W. H.—Five Years' Experience of the Effect of the Workmen's Compensation Acts, with Special

Reference to Schemes certified thereunder. June.

Wellton, T. A.—Note on the Registrar-General's Sixty-Fourth Annual Report, being that for the Year 1901. June.*

INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES,

HALL, MOORGATE PLACE, E.C.

(INCORPORATED BY ROYAL CHARTER, 11TH MAY 1880.)

Officers.—*President*: John Gane, F.C.A. *Vice-President*: William B. Peat, F.C.A. *Secretary*: Hon. George Colville, B.A., Moorgate Place, E.C.

Meetings.—The Annual Meeting takes place on the first Wednesday in May.

Membership.—Entrance Fees: As Fellow, 20 Guineas; as Associate, 10 Guineas; Annual Certificate Fees: Fellow, London, 5 Guineas; Fellow, Country, 3 Guineas; Associate (in practice), London, 2 Guineas; Associate (not in practice), London, 1 Guinea; Associate, Country, 1 Guinea. Annual Subscriptions: Fellow, 2 Guineas; Associate, 1 Guinea.

Publications.—*Charter of Incorporation, Bye-Laws, Report and Accounts, and List of Members*, 1905, 2s.; *Examination Papers* (6d. per copy).

Papers read during 1904, and published in "Proceedings."

Blease, W., F.C.A. — The Clearing-House Arrangements of the Liverpool Cotton Association.

Dawson, S. S., F.C.A. — British and Foreign Methods of Bookkeeping, with Special Reference to Legalised Systems.

Harmood-Banner, J. S., M.P., D.L., F.C.A. — Presidential Address.

Pixley, F. W., F.C.A., F.S.A. — Chartered Accountants and the Development of the Limited Liability Companies Acts.

Wellton, T. A., F.C.A. — The Rights of Partners and Shareholders *inter se*.

THE CHARTERED ACCOUNTANTS' STUDENTS' SOCIETY OF LONDON,

1A FREDERICK'S PLACE, OLD JEWRY, E.C.

Officers.—*President*: Edwin Waterhouse, M.A., F.C.A. *Hon. Secretary*: S. G. Cole, F.C.A.

Meetings.—On certain Wednesdays, at 6 p.m. The Annual Meeting takes place during the Spring Session.

Membership.—Entrance Fee: Ordinary Members, 5s.; Annual Subscriptions: Honorary Members in Practice, £1, 1s.; Honorary Members not in Practice and Ordinary Members, 10s. 6d.

Publication.—*Transactions*.

*List of Papers read during Session 1904-1905, and published in
"Transactions," price 4s. annually.*

- Discussion.*—Would Legislation to Compel Traders to Keep Proper Books open to Government Inspection be Desirable? Oct. 26.
- That Municipal Trading under the Present Conditions is Detrimental to the National Interests. Mar. 22.
- June Exam. Questions. Opened by R. C. Taylor, A.C.A. Oct. 12.
- December Exam. Questions. Opened by H. G. Cocke, A.C.A. Feb. 15.
- Baillie, M. G.*, A.C.A.—Some Notes on Stock Exchange Securities. Feb. 22.
- Bird, C. F.*—The Advantages to a Trader of Keeping Proper Books of Account, and the Evils Arising through Failure to do so. Oct. 19.
- Comins, C.*, F.C.A. — Receiverships. Nov. 2.
- David, S. H.*—Fire Insurance: some Important Points and Technicalities. Mar. 15.
- Jacobs, H.*—Secured Creditors in Bankruptcy, and Winding up. Mar. 8.
- Lanham, H.*, A.C.A.—Accountancy as a Close Profession: some Comparisons and Suggestions. Nov. 30.
- Pedder, S.*—Cost Accounts: their Advantages and their Relation to Business Results. Mar. 1.
- Webb, E. S. F.*—Transfer of Land. Nov. 16.

THE SOCIETY OF ACCOUNTANTS AND AUDITORS,

4 KING STREET, CHEAPSIDE, E.C. (INCORPORATED 1885.)

Officers.—*President*: W. G. Rayner, F.S.A.A. *Vice-President*: H. L. Price, F.S.A.A. *Secretary*: J. Martin, F.S.A.A.

Membership.—Entrance Fee: Fellow, £10, 10s.; Associate, £5, 5s. Annual Subscription: Fellow, £2, 2s.; Associate, £1, 1s.; Student, 10s. 6d.

Meeting.—The Anniversary Meeting is held in May.

Publications.—*Incorporated Accountants' Year Book*, containing List of Members, with Articles, Byelaws, Examination Papers, and Library Catalogue (Annually), price 2s. *Incorporated Accountants' Journal* (Monthly), price 8d. Examination Papers (Half-Yearly), price 6d.

INCORPORATED ACCOUNTANTS' STUDENTS' SOCIETY OF LONDON,

4 KING STREET, CHEAPSIDE, E.C.

Officers.—*President*: G. E. Pike, F.S.A.A. *Hon. Secretary*: W. Southwood Smith, F.S.A.A.

Meetings.—The Anniversary Meeting takes place in January. Lectures and Discussions, Fortnightly during February, March, April, September, October, November, and December.

Membership.—Entrance Fee, 5s.; Annual Subscription: Hon. Members in Practice, 10s. 6d.; Hon. Members not in Practice and Ordinary Members, 5s.

Publication.—*Transactions*, yearly, 3s. 6d.

Papers read during Session 1904-1905 ; and published.

- Clerk, A. I. M.*—The Prevention and Detection of Fraud. Oct. 11.
Costello, L. W. J.—Some Legal Terms : their Meaning and Significance. Nov. 16.
Crane, A. C.—Some Rights and Duties of a Trustee in Bankruptcy. Nov. 2.
Farr, P. E.—Stock Exchange Accounts. Nov. 22.
Logan, J. P.—Depreciation in Municipal Undertakings. Mar. 8.
Martin, J.—Incorporated Accountants in the British Empire. Mar. 29.
Morgan, H.—A Manchester Warehouseman's Accounts. Apr. 12.
Mossop, L.—The Law relating to Debentures. Apr. 18.
Pike, G. E.—Presidential Address. Feb. 21.
Ricardo, J.—The Law and Customs of the Stock Exchange. Oct. 18.
Rittner, G. H.—The Law of Rating. Mar. 14.
 — Prize Essay :—Cheques and Bills of Exchange : their Issue and Treatment in Books. Nov. 30.

INSTITUTE OF BANKERS,

34 CLEMENT'S LANE, LOMBARD STREET, E.C. (FOUNDED 1879.)

Officers — *President* : J. Spencer Phillips. *Secretary* : Ernest Sykes, 34 Clement's Lane, E.C.

Meetings.—Usually on the first Wednesday in each month, from November to May inclusive, at the London Institution, Finsbury Circus, at 5.30 P.M. The Anniversary Meeting takes place in May.

Membership.—Annual Subscription : Fellows, 42s. ; Associates, 21s. ; Ordinary Members, 10s. 6d.

Publication.—The *Journal*, monthly, except July, August, and September, price 1s. 6d. per part.

List of Papers read during Session 1904-1905.

- Brickdale, C. F.*—The Practice of the Land Registry as Affecting Banking. Feb. 1.
Phillips, J. S.—The Inaugural Address. Nov. 2.
Schmidt, H.—The Working of the Elastic Clause of the German Bank Act. Mar. 1.
Speyer, E.—Some Aspects of National Finance. June 7.

CHARTERED INSTITUTE OF SECRETARIES,

65 LONDON WALL, E.C.

Officers.—*President* : George Parker, F.C.A., F.S.A.A. *Secretary* : Russell Day, B.A., F.R.G.S., 65 London Wall.

Meetings.—Third Thursday in each month from November to May. The Annual Meeting takes place in November.

Membership.—

| | Entrance Fee. | Subscription. | |
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| | | London. | Country. |
| Associates, . . . | £1 1 0 | £1 1 0 | £0 10 6 |
| Fellows, . . . | 2 2 0 | 2 2 0 | 1 0 0 |
| Life Composition. | | London. | Country. |
| Fellows, . . . | | £21 0 0 | £10 10 0 |
| Associates, . . . | | 10 10 0 | 5 5 0 |

Publications.—*List of Members* (annually), 2s. *The Secretary* (formerly *The Secretary's Journal*) (monthly), 6d. *Examination Papers* (half-yearly), 6d. per set.

List of Papers read during Session 1904–1905.

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| <i>Discussion.</i> —Amendment of the Companies Acts. Mar. 20. | Nov. 19, Dec. 19, Jan. 23, Feb. 27. |
| <i>Bowley, A. L., M.A., F.S.S.</i> —The Use and Abuse of Statistics. | <i>Stevenson, J.</i> —Amendment of the Companies Acts. May 26. |

INSTITUTE OF ACTUARIES,

STAPLE INN HALL, HOLBORN, W.C. (INCORPORATED BY ROYAL CHARTER, JULY 29, 1884.)

Officers.—*President*: Henry Cockburn. *Hon. Secretaries*: G. Todd, M.A., and S. G. Warner. *Assistant-Secretary*: S. H. Jarvis.

Meetings.—Last Monday in each month, from November to April inclusive, at 5 P.M. The Anniversary Meeting takes place in June.

Membership.—Entrance Fee: Students, £1, 1s.; Annual Subscription, One, Two or Three Guineas, according to class of Membership.

List of Papers read during Session 1904–1905, and published in the "Journal of the Institute of Actuaries," price 2s. 6d. each quarterly part (Layton).

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| <i>Allin, S. J. H. W.</i> —Social Conditions as Affecting Widows' and Orphans' Pension Funds. Apr. 17. | <i>Cockburn, H.</i> —Presidential Address. Nov. 28. |
| <i>Bell, F.</i> —On the Retrospective Method of Valuation. Dec. 19. | <i>King, G.</i> —On Staff Pension Funds. Jan. 30. |
| <i>Buchanan, Dr J.</i> —Bonuses in Model Office Valuations, and their Relations to Reserves. Mar. 27. | <i>Lidstone, G. J.</i> —Changes in Pure Premium Policy—Values consequent upon Variations in the Rate of Interest or the Rate of Mortality, or upon the Introduction of the Rate of Discontinuance. Feb. 27. |
| <i>Carruthers, Dr S. W.</i> —On the Importance and Practicability of a Standard Classification of Impaired Lives. Apr. 17. | |

EAST INDIA ASSOCIATION,

WESTMINSTER CHAMBERS, 3 VICTORIA STREET, S.W.
(FOUNDED 1866.)

Officers.—*President*: The Right Hon. Lord Reay, G.C.S.I. *Chairman of Council*: Sir Lepel Griffin, K.C.S.I. *Secretary*: C. W. Arathoon.

Meetings.—The Anniversary Meeting is generally between May and July.

Membership.—No Entrance Fee; Annual Subscription, 25s.; Life Composition, £14.

Publication.—*Journal*, quarterly, price 1s.

*Papers read during Session 1904-1905, and published in the
"Journal."*

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| <p><i>Beighton, T. D.</i>, I.C.S.—The Possibilities of the Indian Tobacco Industry. Dec. 20.</p> <p><i>Pennington, J. B.</i>, B.L.Cantab. — A Suggestion for the Abolition of the Salt Monopoly. June 24.</p> <p><i>Qadir, Shaikh Abdul</i>, B.A. — The Future of the Hindustani Language and Literature. Apr. 13.</p> <p><i>Radcliffe, D. E.</i>—Ramie, the Textile of</p> | <p>the Future : a Promising Industry for India. Mar. 29.</p> <p><i>Rees, J. D.</i>, C.I.E.—Tea : Trade and Taxation. July 20.</p> <p><i>Skvine, F. H.</i>, I.C.S.—The Benares Mutiny of 1799 : a Study in Eighteenth - Century Politics. June 6.</p> <p><i>Thorburn, S. S.</i>, I.C.S.—The Place of India under Protection. Jan. 30.</p> <p><i>Young, Sir W. M.</i>, K.C.S.I.—The Progress of the Punjab. Dec. 13.</p> |
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COUNTRY.

THE BIRMINGHAM AND MIDLAND SOCIETY OF INCORPORATED ACCOUNTANTS,

23 COLMORE ROW, BIRMINGHAM.

Officers.—*President* : Charles F. Sharp, F.S.A.A. *Hon. Secretary* : Harold Harcourt, A.S.A.A., 23 Colmore Row, Birmingham.

Meetings.—Ordinary Meetings are held at such times as the Committee think fit. The Annual Meeting is held in February.

Membership.—Annual Subscription, 10s. 6d.; no Entrance Fee.

The Lectures, etc., are now arranged by the Birmingham and Midland Incorporated Accountant Students' Society.

LIVERPOOL AND DISTRICT SOCIETY OF INCORPORATED ACCOUNTANTS,

22 LORD STREET.

Officers.—*President* : C. L. Bragget, F.S.A.A. *Hon. Treasurer* : C. H. Nelson, F.S.A.A. *Hon. Secretary and Librarian* : C. Hewetson Nelson, F.S.A.A., 22 Lord Street, Liverpool.

Meetings.—Monthly. The Anniversary Meeting is in July.

Membership.—The Subscription is 10s. 6d. per annum, and the Entrance Fee 5s. Any Member of the Society of Accountants and Auditors (incorporated 1885) is eligible for Membership.

Publication.—*A Critical Guide to the Incorporated Accountants' Examinations*, by C. H. Nelson, F.S.A.A., 2s. 6d. net.

*Lectures delivered before the Society during Session 1904-1905. Those marked * are published in the "Incorporated Accountants' Journal."*

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| <p><i>Adam, J. R.</i>—Modern Office Equipment. Feb. 8.</p> <p><i>Gardner, H.</i>, M.A., LL.B.—Law Relating to Executors. Jan. 18.</p> | <p><i>Price, H. L.</i>, F.S.A.A.—Executorship Accounts. Oct. 21.*</p> <p><i>Ross, C. H.</i>—Income Tax Practice. Nov. 16.*</p> |
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MANCHESTER STATISTICAL SOCIETY,

3 YORK STREET. (FOUNDED 1833.)

Officers.—*President*: F. Brocklehurst, M.A. *Hon. Secretaries*: T. Gregory and H. Heape, 3 York Street.

Meetings.—Second Wednesday in each month, from November to May, at 6 P.M.
The Annual Meeting takes place in June.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.;
Life Composition, £5.

Publication.—*Transactions*, price 2s. 6d.

*Papers read during Session 1904–1905, and published in the
“Transactions.”*

Chapman, Prof. S. J., M.A.—Some Aspects of the Theory of Wages in Relation to Practice. Jan. 11.

Fraser, D. D.—The Gold Reserve of the Nation. Apr. 12.

Gill, A. H., J.P.—The Organisation of Labour as a Political Force. Feb. 1.

Welton, T. A., F.C.A.—Bye-Products of the Census: a Study of the Recent Migrations of English People, and some other Questions arising in Relation to the Census, 1901. Nov. 9.

Zimmerman, L. W.—The Taxation of Land Values. Dec. 14.

THE MANCHESTER AND DISTRICT SOCIETY OF INCORPORATED ACCOUNTANTS,

57 KING STREET, MANCHESTER. (FOUNDED 1886.)

Officers.—*President*: F. A. Fitton, F.S.A.A. *Hon. Secretary*: A. E. Piggott, F.S.A.A., 57 King Street.

Meetings.—The Annual Meeting is held in September. Ordinary Meetings at 6.30 P.M. on various dates.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 10s. 6d.

List of Papers read during Session 1904–1905.

Discussion.—An Accountant's View of Free Trade. Opened by H. L. Price. Nov. 29.

—The Investment of Depreciation Funds. Opened by H. L. Price. Dec. 15.

—The Detection and Prevention of Fraud. Opened by G. R. Kenyon. Mar. 23.

Dyer, S. A.—The Audit of a Manufacturer's Accounts. Nov. 17.

Eaves, W.—Building Society Law and Accounts, from a Secretarial Point of View. Jan. 24.

Williamson, F. H.—Partnership. Feb. 23.

SHEFFIELD AND DISTRICT SOCIETY OF INCORPORATED ACCOUNTANTS,

11 FIGTREE LANE, SHEFFIELD.

(FOUNDED 1887.)

Officers.—*President*: Henry Toothill, F.S.A.A. *Hon. Secretary*: Percy Toothill, A.S.A.A., Library at 11 Figtree Lane.

Meetings.—The Anniversary Meeting is held in October. No special time for ordinary Meetings.

Membership.—Entrance Fee, 5s.; Annual Subscription, 10s. 6d.

**NEWCASTLE-ON-TYNE AND DISTRICT SOCIETY OF
INCORPORATED ACCOUNTANTS AND AUDITORS,
CLAYTON CHAMBERS, 61 WESTGATE ROAD.**

Officers.—*President*: I. B. Reid, F.S.A.A. *Hon. Secretary*: R. Smith, F.S.A.A.
Librarians: Messrs Forster, Scollick & Co.

Meetings.—The Annual Meeting for the current year was held in August 1905.

Membership.—Fellows and Associates, 5s. annually; Students, 2s. 6d.

**SOUTH WALES AND MONMOUTHSHIRE SOCIETY
OF INCORPORATED ACCOUNTANTS AND AUDITORS,
CALEDONIAN CHAMBERS, CARDIFF.**

Officers.—*President*: W. J. Bennett, F.S.A.A. *Secretary*: C. A. Drinkwater, A.S.A.A., Caledonian Chambers, St Mary Street.

Meetings.—The Anniversary Meeting is held in March. Monthly Meetings are held on Mondays at 7.30 P.M.

Membership.—Annual Subscription, 10s. 6d.

List of Papers read during Session 1904–1905.

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| <i>Drinkwater, C. A.</i> —The Audit of Accounts of a Limited Company and the Verification of its Assets. Jan. 13. | Title Deeds and Securities. Feb. 13. |
| <i>Lloyd, E.</i> —Colliery Accounts and Useful Formulæ. Feb. 27. | <i>Pratt, L. H. A., LL.B.</i> —Partnership. Mar. 13. |
| <i>Pethybridge, W. H.</i> —Some Useful Points in the Examination of | <i>Sanders, C. F.</i> —Building Societies' Accounts. Nov. 14. |
| | <i>Warren, F. J.</i> —Some Features of Municipal Accountancy. Nov. 28. |

**THE INSTITUTE OF MUNICIPAL TREASURERS AND
ACCOUNTANTS (INCORPORATED),
TOWN HALL, ACCRINGTON.**

Founded in 1885 as the Corporate Treasurers and Accountants Institute, and Incorporated under its present Title in 1901.

Officers.—*President*: G. A. Thorpe, F.S.A.A., City Treasurer, Bradford. *Hon. Secretary*: J. Beckett, Treasurer, Town Hall, Accrington.

Membership.—Members pay 21s. Entrance Fee, and 31s. 6d. annually ; for Associates the amount is 10s. 6d. in each case, and for Students 5s. in each case. The Institute is empowered to hold examinations and grant awards for proficiency in Municipal Accountancy and Finance and Municipal Law.

Publications.—*Annual Report. Financial Circular.*

Papers read at the Annual Meeting, held on June 15 and 16, 1905, and published in the "Report," 1905.

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| <i>Beckett, F. J., C.A.</i> —Municipal Savings Banks. | <i>Gunner, W., F.S.A.A.</i> —Presidential Address. |
| <i>Bridge, J., F.S.A.A.</i> —Rating of Electricity Works. | <i>Moon, C. E., F.S.A.A.</i> —Electric Light Accounts. |

YORKSHIRE DISTRICT SOCIETY OF INCORPORATED ACCOUNTANTS,

5 PARK ROW, LEEDS. (FOUNDED 1894.)

Officers.—*President* : Charles H. Wilson, F.S.A.A. *Hon. Secretary* : W. J. Slater, A.S.A.A., 5 Park Row, Leeds.

Meetings.—Third Wednesday in the Month at 7.30 P.M.

Membership.—Subscription : Full Membership, 5s. ; Students, 2s. 6d. per annum.

The following Lectures were delivered during the Session 1904–1905.

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| <i>Chapman, Dr, M.A.</i> —Company Law. Nov. 16. | Audit of the Trading Accounts of a Municipal Corporation. Feb. 1. |
| — Negotiable Instruments, Bills, Notes, and Cheques. Jan. 18. | <i>Farr, W. E.</i> —The Distribution of an Intestate's Estate. Feb. 15. |
| — Bankruptcy Law. Mar. 15. | <i>Starkie, R. E., A.S.A.A.</i> —Income Tax Returns and Appeals. Jan. 4. |
| <i>Claridge, W., M.A., F.S.A.A.</i> —The | |

THE INSURANCE INSTITUTE OF YORKSHIRE, PHOENIX ASSURANCE COMPANY, LTD., 8 PARK ROW, LEEDS. (FOUNDED 1888.)

Officers.—*President* : D. M. Linley, B.A., F.I.A. *Hon. Secretary* : E. Bagshaw, Phoenix Assurance Company, Ltd., 8 Park Row.

Meetings.—The Anniversary Meeting is held in May. Ordinary Meetings are held at various dates from October to March.

Membership.—Members : Section I., 21s. ; Section II., 10s. 6d. ; Associates, 5s.

Publication, 1904.—*Annual Report, 2s.*

List of Papers read during Session 1904–1905.

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| <i>Colchester, F. E.</i> —Supplementary Remarks to the Paper on "Oil Mills." Mar. 6. | <i>Hughes, W., F.I.A.</i> —The Assurance of Under - Average Lives. Feb. 20. |
| <i>Harris, A. S., M.A., F.I.A.</i> —Notes Relating to Endowment Assurances. Dec. 19. | <i>Teale, F. B.</i> —Methods of Heating. Jan. 30. |

SCOTLAND.

**THE CHARTERED ACCOUNTANTS STUDENTS'
SOCIETY OF EDINBURGH,
HALL OF THE SOCIETY OF ACCOUNTANTS, 27 QUEEN STREET.
(CONSTITUTED 23RD JUNE 1886.)**

Officers.—*Hon. President*: Francis More. *Hon. Secretary*: B. M. Graham, C.A., 6A George Street.

Meetings.—Ordinary Meetings held once in each month, from October to March inclusive, as convened by the Committee.

Membership.—Annual Subscription, 2s. 6d. No Entrance Fee.

Publication.—*Transactions* (Session 1903–1904), price 1s.

*List of Papers read during Session 1904–1905. That marked * has been published.*

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| <i>Allan, J., M.A.</i> —Income-Tax Law and Practice. Jan. 19.* | <i>Morison, T. B.,</i> Advocate. — Stock-brokers' Contracts. Mar. 16. |
| <i>Clapperton, A., C.A.</i> —The Books and Accounts of Investment Companies and their Audit. Feb. 23. | <i>Tod, F., C.A.</i> —Cost Accounts. Feb. 23. |

SCOTTISH SOCIETY OF ECONOMISTS.

(FOUNDED IN EDINBURGH IN 1897.)

Officers.—*President*: W. C. Smith, K.C. *Hon. Secretary*: J. H. Romanes, 26 Frederick Street. *Hon. Treasurer*: T. J. Millar, C.A.

Meetings.—These have been held through the courtesy of the Society of Accountants in Edinburgh in their Hall at 27 Queen Street, every month during the Winter.

Membership.—Annual Subscription, 5s.; no Entrance Fee; Life Composition, 3 Guineas.

*List of Papers read during Session 1904–1905; those marked * have been published.*

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| <i>Batten, E.</i> —Home and Foreign Trade as Affected by Tariff. Mar. 17. | <i>Price, L. L.</i> —The Recent History of Industrial Peace. Oct. 7.* |
| <i>Craig, A. J.</i> —The Working Man's Family Budget. Nov. 4.* | <i>Stewart, J.</i> —The Granite Trade and Tariff Changes. Dec. 2. |
| <i>Dudgeon, J. S.</i> —Scotland's Rural De-population. Feb. 24.* | |

IRELAND.

**THE SOCIETY OF INCORPORATED ACCOUNTANTS
IN IRELAND,**

12 COLLEGE GREEN. (FOUNDED 1901.)

Officers.—*President*: E. Kevans, F.S.A.A. *Hon. Secretary*: A. H. Walkey.

Meetings.—Meetings are held at such times and places as the Committee of Management may decide. The Annual Meeting is held in September.

Membership.—Annual Subscription, 10s. 6d.

STATISTICAL AND SOCIAL INQUIRY SOCIETY OF IRELAND,

35 MOLESWORTH STREET, DUBLIN. (FOUNDED 1847.)

Officers. — *President*: R. E. Matheson, LL.D., Registrar General. *Hon. Secretaries*: W. Lawson, LL.D.; C. H. Oldham; Ninian M. Falkiner, M.D. *Assistant Secretary*: Miss Ling.

Meetings.—Usually the third Friday in each month, from November to June inclusive, at 8.15 P.M. The Anniversary Meeting takes place in November.

Membership.—No Entrance Fee; Annual Subscription, Members, 20s.; Associates, 10s.

Publication—*Journal*, Vol. XI., Part 84, 1s.

*List of Papers read during Session 1904–1905. That marked * will be published in the "Journal."*

Castleton, Lord.—A Plea for Village Farming on Co-operative Lines. Mar. 7.

Finlay, Rev. T. A.—Practical Education in our Schools. May 5.

Geoghegan, H. C.—The Report of the Tariff Commission. Dec. 20.

Lawson, W.—Registration of Clubs (Ireland) Act: Licensing Act and its Applicability to Ireland. Feb. 17.

Matheson, R. E.—Principal Results in the United Kingdom of the Census of 1901. Nov. 25.*

SECTION VII.

MECHANICAL SCIENCE AND ARCHITECTURE.

LONDON.

THE INSTITUTION OF CIVIL ENGINEERS,
GREAT GEORGE STREET, WESTMINSTER, S.W. [Telegrams: "Institution, London"; Telephone: Westminster 51.] (ESTABLISHED 1818;
INCORPORATED BY ROYAL CHARTER, 1828.)

Officers. — *President:* Sir G. Molesworth, K.C.I.E. *Secretary:* J. H. T. Tudsbery, D.Sc.

Meetings.—Every Tuesday at 8 P.M., from November to April inclusive. The Annual Meeting takes place in April.

Membership.—The following Table shows the rates of Annual Subscriptions—those persons being considered Resident whose place of business or whose residence is within ten miles of the General Post Office, London :—

| | Member. | Associate Member and Associate. | Student. |
|-------------------|---------|------------------------------------|----------|
| | £ s. d. | £ s. d. | £ s. d. |
| Resident, . . . | 4 4 0 | 3 3 0 | 2 2 0 |
| Non-resident, . . | 3 3 0 | 2 12 6 | 1 11 6 |

Every new Member and Associate is required to pay an Admission Fee of £10, 10s.; Life Composition, 60 Guineas.

"Minutes of Proceedings," 1904–1905. (Printed for private circulation only, not on sale. All papers are issued in pamphlet form after appearing in the volumes.) Those published up to August 17 are marked (P).

Allen, R. W., A.M.I.C.E.—Surface-Condensing Plants, and the Value of the Vacuum Produced. Feb. 28.

Brassey, Lord, K.C.B., A.I.C.E.—Shipbuilding for the Navy. Mar. 14.

Brunton, J. F., M.I.C.E.—Notes on the Working of the Shone System of Sewerage at Karachi. (P.) Jan. 24.

Carey, A. E., M.I.C.E.—Coast Erosion. (P.) Nov. 8.

Clarke, L. E., M.I.C.E. — Floating Docks. Jan. 31.

Crompton, Col. R. E. B., C.B., R.E., M.I.C.E.—Unsolved Problems in Electrical Engineering. ("James Forrest" Lecture.) Apr. 10.

M'Lellan, D., M.I.C.E.—The Reconstruction of Moncreiffe Tunnel. Feb. 14.

Marriott, W., M.I.C.E.—The Maintenance and Strengthening of Early Iron Bridges. Apr. 11.

Matthews, E. R. — Erosion on the Holderness Coast of Yorkshire. (P.) Nov. 8.

Molesworth, Sir G. L., K.C.I.E.—Inaugural Address. (P.) Nov. 1.

THE IRON AND STEEL INSTITUTE,

28 VICTORIA STREET, S.W. (FOUNDED 1869; INCORPORATED
BY ROYAL CHARTER 1899.)

Officers.—*President*: R. A. Hadfield. *Secretary*: Bennett H. Brough, 28 Victoria Street. *Assistant Secretary*: Leicester P. Sidney.

Meetings.—The Annual General Meeting takes place in May, and the Autumn Meeting in September. The 1904 Autumn Meeting was held in New York in October.

Membership.—Entrance Fee, £2, 2s.; Annual Subscription, £2, 2s.; Life Composition, £31, 10s.

Publication.—*Journal*, 2 volumes annually, 16s. per volume.

*List of Papers read during the Meetings of October 1904
and May 1905, and published in the "Journal."*

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| <i>Bauerman, H.</i> —On Mining and Metallurgy at the St Louis Exposition. Oct. | <i>Gledhill, J. M.</i> —On the Development and Use of High-Speed Tool Steel. Oct. |
| <i>Bellamy, C. V.</i> —On a West African Smelting-House. Oct. | <i>Hadfield, R. A.</i> —On the Effect produced by Liquid Air Temperatures on the Mechanical and other Properties of Iron. May. |
| <i>Boudouard, O.</i> —On Experiments on the Fusibility of Blast Furnace Slags. May. | <i>Houghton, S. A.</i> —On the Failure of an Iron Plate through Fatigue. May. |
| <i>Campbell, H. H.</i> —On the Influence of Carbon, Phosphorus, Manganese, and Sulphur on the Tensile Strength of Open-Hearth Steel. Oct. | <i>Jüptner, Baron H. von, A. A. Blair, G. Dillner, and J. E. Stead, F.R.S.</i> —On the Methods for the Determination of Carbon and Phosphorus in Steel. Oct. |
| <i>Darby, J. H., and G. Hatton.</i> —On Recent Developments of the Bertrand-Thiel Process. May. | <i>Sahlin, A.</i> —On the Cleaning of Blast Furnace Gas. May. |
| <i>Demenge, E.</i> —On the Utilisation of Exhaust Steam, from Engines acting Intermittently, by means of Generative Steam Accumulators and of Low-Pressure Turbines, on the Rateau System. Oct. | <i>Surzycki, S.</i> —On the Continuous Steel-making Process in Fixed Open-hearth Furnaces. May. |
| <i>Gayley, J.</i> —On the Application of Dry-Air Blast to the Manufacture of Iron. Oct. and May. | <i>Thwaite, B. H.</i> —On Accidents due to the Asphyxiation of Blast Furnace Workmen. May. |
| | <i>Wüst, Prof. F., and P. Wolff.</i> —On the Behaviour of the Sulphur in Coke in the Blast Furnace. May. |

THE INSTITUTION OF MINING AND METALLURGY,
SALISBURY HOUSE, LONDON WALL, E.C.

Officers.—*President*: William Frecheville, Assoc.R.S.M. *Secretary*: C. McDermid.

Meetings.—Ordinary, on the third Thursday in each month, at 8 P.M., October to May inclusive, at the Geological Society's Rooms, Burlington House, W., at 3 P.M. The Annual General Meeting is held in March.

Membership.—

| | Entrance Fee. | Annual Subscription. |
|-------------------------------|---------------|----------------------|
| | £ s. d. | £ s. d. |
| Members, | 3 3 0 | 2 2 0 |
| Associates, | 2 2 0 | 1 11 6 |
| Students, | none | 1 1 0 |
| Life Composition, 30 Guineas. | | |

Publications.—*Transactions*, 2ls. per vol., net, to non-members. *Bulletin*, monthly throughout the year. Special volumes on "Winding Plants for Great Depths," Part I., text; Part II., plates; price (to non-members) 42s. net per part.

Papers read during Session 1904–1905, and published in the "Transactions." Separate Papers can be obtained from the Institution.

- Ahlers, R. O.**—Notes on the New Dharwar Gold Field of India.
Bennetts, B. H., and L. J. W. Jones.—A New Slag Car.
Bramall, W.—Realisation of West Australian Bullion.
Bretsch, H.—Chinese Methods of Mining Quicksilver.
Butters, C., and E. M. Hamilton.—On the Cyaniding of Ore at El Oro, Mexico, dealing principally with Regrinding of Sands.
Caldecott, W. A.—The Finer Crushing of Banket Ore.
Clawdet, A. C.—Notes on Gold Bullion.
Douglas, G. M.—Wood Gas for Power Purposes and Gas Generators.
Fawns, S.—Notes on the Mount Bischoff Tin Mine, Tasmania.
Frecheville, W.—Presidential Address.
French, A. T.—Some Experiments on Ore Sampling.
Garthwaite, E. H.—A Shaft Signalling Device.
Harris, E.—The Permanganate Chlorination Process at Bethanga.
Holloway, G. T.—Sieve and Screen Apertures.
Huddart, L. H. L.—St David's Gold Mine, N. Wales.
Jarman, A., and E. Le Gay Brereton.—Laboratory Experiments on the Use of Ammonia and its Compounds in Cyaniding Cupriferous Ores and Tailings.
Koller, G.—The Kedabeg Copper Mines.
M'Dermott, E. D.—Reprecipitation of Gold from Cyanide Solutions and Absorption of Gold by a Wooden Leaching Vat.
Marriott, H. F.—Deep Borehole Surveying.
Nicholls, H. E.—A Method of Testing Alluvial Deposits.
Park, J.—On the Cause of Border Segregation in some Igneous Magmas.
Poore, P.—Notes on the Prestea Districts, Gold Coast Colony.
Rose, Dr T. K.—Refining Gold Bullion and Cyanide Precipitates with Oxygen Gas.
Simpkin, W., and J. B. Ballantine.—Dry Crushing of Ores by the Edison Process.
Sleeman, H. R.—An Egyptian Gold Mine.
Stephens, F. B.—The Treatment of Refractory Auriferous Sulphides at the Cassilis Mine, Victoria, Australia.
Stephens, F. J.—Notes on a Low Grade Copper Ore Deposit in the Himalayas.
Stonier, G. A.—Mica Mining in Nellore, Southern India.
Sulman, H. L.—Note on the Ammonia Copper Cyanide Process.
Thomas, R. A., and W. P. O. Macqueen.—The Dust in the Air and the Gases from Explosives in a Cornish Mine (Dolcoath) and the Efficacy of Methods of Dealing with them.
Weinberg, E. A.—The Blake-Morscher Electrostatic Separator.
West, H. E.—Early Dry Crushing Plants in Western Australia, and the Introduction of the Filter Press.

CIVIL AND MECHANICAL ENGINEERS' SOCIETY,

25 VICTORIA STREET, WESTMINSTER, S.W.

(FOUNDED MAY 1859.)

Officers.—*President*: W. B. Esson, M.I.C.E., M.I.E.E. *Hon. Secretary*: A.S.E. Ackermann, A.M.I.C.E.

Meetings.—Anniversary Meeting first Thursday in May. Ordinary Meetings are held on the first Thursday of each month, from October to May inclusive, at 8 P.M.

172 SECTION VII.—MECHANICAL SCIENCE AND ARCHITECTURE.

Membership.—Entrance Fee, 10s. 6d. ; Annual Subscription : Town Members, One Guinea ; Country or Foreign, Half a Guinea ; Life Composition, £10.

List of Papers read during Session 1904–1905, and published.

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| <i>Bellamy, H. E.</i> —Notes on Portland Cement. Dec. 8. | <i>Reade, J. F.</i> , A.M.I.C.E.—Engineering Expert Evidence. Mar. 2. |
| <i>Casey, J.</i> , M.I.N.A.—Thames Barrage. Jan. 5. | <i>Tattersall, A. R.</i> —The Mechanics of Flour Milling. Feb. 2. |
| <i>Hanssen, C. T. A.</i> , A.M.I.C.E.—Presidential Address. Nov. 3. | <i>Twelvetrees, W. N.</i> , M.I.M.E.—Design of Concrete Steel Beams. Apr. 6. |
| <i>Osborne, J. C.</i> —Card Indexing and Filing. May 4. | |

SOCIETY OF ENGINEERS,

17 VICTORIA STREET, WESTMINSTER, S.W.

Place of Meeting.—Royal United Service Institution, Whitehall, S.W.

(FOUNDED 1854.)

Officers.—*President* : Nicholas J. West. *Secretary* : Perry Fairfax Nursey.

Meetings.—The Annual Meeting takes place on the second Monday in December. Ordinary Meetings on first Monday in the month, from October to June, at 7.30 P.M. Visits to works of Engineering interest are arranged during the vacation.

Membership.—

| | Entrance Fee. | Subscription. |
|----------------------------|---------------|---------------|
| | £ s. d. | £ s. d. |
| Town Members, | 2 2 0 | 2 2 0 |
| Country Members, | 1 11 6 | 1 11 6 |
| Associates, | 1 1 0 | 1 1 0 |

Members and Associates residing abroad pay One Guinea Entrance Fee, and One Guinea Annual Subscription. Life Composition, Twenty Guineas, and, if a new Member, Two Guineas Entrance Fee.

Publication.—*Transactions*, annually, price 15s. to non-Members.

List of Papers read during the year 1904.

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|---|---|
| <i>Ackermann, A. S. E.</i> —British and American Coal-Cutting Machines. May 2. | <i>Nursey, P. F.</i> —The Society's History : a Jubilee Retrospect. May 2. |
| <i>Allanson-Winn, R. G.</i> —Deep-Sea Erosion and Foreshore Protection. Oct. 3. | <i>Scott, P. G.</i> —Notes on Railway Surveys and Design in New Countries. June 6. |
| <i>Butler, D. B.</i> —Presidential Address. Feb. 1. | <i>Shenton, H. C. H.</i> —The Latest Practice in Sewage Disposal. Apr. 11. |
| <i>Latham, F.</i> —Some Recent Works of Water Supply at Penzance. Mar. 7. | <i>Storey, W. E.</i> —Condensing Machinery. Dec. 5. |
| | <i>Thame, J.</i> —Recent Developments in Crushing and Concentrating Machines. Nov. 7. |

THE INSTITUTE OF MARINE ENGINEERS (INCORPORATED),

58 ROMFORD ROAD, STRATFORD, ESSEX.

Officers.—*President*: Sir Marcus Samuel. *Hon. Secretary*: James Adamson, St Quivox, Stopford Road, Upton Manor, Essex.

Meetings.—Second and fourth Mondays of each month from September to April inclusive, at Stratford, for papers and discussions. First and third Mondays for Lectures and Experimental Work. First and third Friday evenings Council Meetings. The Anniversary Meeting takes place in March.

Membership.—

| | |
|--|--------|
| Member—Entrance Fee, | £1 0 0 |
| Annual Subscription, | 1 1 0 |
| Companion—Same as Member. | |
| Associate Member—Entrance Fee, | 1 0 0 |
| Annual Subscription, | 0 15 0 |
| Associate—Entrance Fee, | 0 15 0 |
| Annual Subscription, | 0 10 0 |
| Graduate—Entrance Fee, | 0 10 0 |
| Annual Subscription, | 0 5 0 |

Publication.—*Transactions*, price 15s.

Papers read during Session 1904–1905, and published in “Transactions,” price 15s.; or separately at from 1s. to 2s. 6d. each.

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| <i>Adamson, J.</i> —Technical Education. Oct. 24. | <i>Harding, W. J.</i> —Development of Torpedo Destroyers. Mar. 13. |
| <i>Brandon, H.</i> —Protection of Metal Surfaces. Apr. 11. | <i>Lyddon, R. B.</i> —Fuel Economy by Insulation. Dec. 12. |
| <i>Cook, H.</i> —Soap Manufacture. Apr. 3. | <i>Mackenzie, R.</i> —The Collecting and Compressing of Carbon Dioxide. Apr. 10. |
| <i>Deurance, J.</i> —Standardising Pipe Flanges. Feb. 13. | <i>Parsons, The Hon. C. A.</i> —Presidential Address. Jan. 16. |
| <i>Feil, J.</i> —Trip to New Zealand. Nov. 7. | |

THE INSTITUTION OF ELECTRICAL ENGINEERS,

92 VICTORIA STREET, WESTMINSTER, S.W.

(FOUNDED 1871; INCORPORATED 1883.)

Officers.—*President*: Alexander Siemens. *Secretary*: G. C. Lloyd.

Meetings.—Held from November to May inclusive, at the Institution of Civil Engineers, on the second and fourth Thursdays, monthly, at 8 P.M. The Annual Meeting takes place in May.

Membership.—

| Annual Subscription. | At Home. £ s. d. | Abroad. £ s. d. | Entrance Fee. £ s. d. |
|------------------------------|---------------------|--------------------|--------------------------|
| Members, | 3 3 0 | 2 2 0 | 3 3 0 |
| Associate Members, | 2 2 0 | 1 11 6 | 2 2 0 |
| Associates, | 2 2 0 | 1 11 6 | 2 2 0 |
| Students (senior), | 1 11 6 | 1 11 6 | Nil. |
| „ (junior), | 1 1 0 | 1 1 0 | „ |
| *Foreign Members, | 3 3 0 | 1 0 0 | „ |

* There are now no elections to this class.

Publications.—*Institution Journal*, issued in parts at 5s. each; *Science Abstracts* conjointly with the *Physical Society*, monthly, 1s. 6d. each Section (Section A: *Physics*; Section B: *Electrical Engineering*); *Wiring Rules*, 6d. (paper covers), and 1s. (cloth covers); *Model General Conditions for Contracts*, 1s.

*List of Original Communications (marked *) and of Papers read during Session 1904–1905 which will be found in Volumes XXXIV. and XXXV. of the "Journal." Papers read before Local Sections are marked as follows:—B, Birmingham; D, Dublin; G, Glasgow; L, Leeds; M, Manchester; N, Newcastle.*

- Discussion on Units and Standards.* Apr. 6.
- Adams, W. P.*—The Combination of Dust Destructors and Electricity Works Economically Considered. Dec. 15.
- Addenbrooke, G. L.*—The Value of Overhead Mains for Electric Distribution in the United Kingdom. Feb. 9.
- Andrews, L.*—High-Tension Switchgear. Dec. 13. M.
- Arnold, B. J.*—Alternating-Current Railway Motors. (St Louis, 1904.)
- Azoli, M.*—On the Systems of Electrical Units. (St Louis, 1904.)
- Bailie, J. D.*—Condensing Arrangements in Central Stations. Jan. 19. L.
- Baker, T.*—The Magnetic Properties of some Alloys of Iron and Silicon.*
- Bate, A. H.*—Heating and Sparking Limits in Variable-Speed Motors. Mar. 15. B.
- Booth, W. H., and J. B. C. Kershaw.*—Fuel Economy in Steam Power Plants. Jan. 12.
- Brown, E. E.*—Address as Chairman of Newcastle Local Section. Nov. 21. N.
- Campbell, A.*—On Shunt Resistances and Temperature Compensation for Ammeters.*
- Carhart, H. S., and G. W. Patterson.*—The Absolute Value of the E.M.F. of the Clark and Weston Cells. (St Louis, 1904.)
- Catterson-Smith, J. K.*—Commutation in a Four-Pole Motor. Mar. 15. B.
- Creech, F.*—The Alternating-Current Series Motor. Apr. 13.
- Duddell, W.*—Report on International Electrical Congress at St Louis. — and *J. E. Taylor.*—Wireless Telegraphy Measurements. May 25.
- Emmott, W.*—Address as Chairman of Leeds Local Section. Nov. 17. L.
- Field, A. B.*—The Dissymmetry of a Three-Phase System.
- Giorgi, G.*—Proposals concerning Electrical and Physical Units. (St Louis, 1904.)
- Goldschmidt, R.*—Temperature Curves and the Rating of Electrical Machinery. Mar. 9.
- Hele-Shaw, H. S., A. Hay, and P. H. Powell.*—Hydrodynamical and Electromagnetic Investigations Regarding the Magnetic Flux Distribution in Toothed-Core Armatures. Nov. 24.
- Henderson, J. B., and J. S. Nicholson.*—Armature Reaction in Alternators. Dec. 13. G.
- Lackie, W. W.*—Earthing. Feb. 14. G.
- London, W. J. A.*—Mechanical Construction of Steam-Turbines and Turbo-Generators. Feb. 28. M.
- Lord, J.*—Tramways' Permanent Way Construction. Feb. 16. L.
- Maxwell, H. B.*—Street Lighting by Electric Arc Lamps. Jan. 10. G.
- Morris, D. K., and G. A. Lister.*—The Eddy-Current Brake for Testing Motors. Apr. 12. B.
- Murray, D.*—Setting Type by Telegraph. Feb. 23.
- Rayner, E. H.*—Report on Temperature Experiments Carried out at the National Physical Laboratory. Mar. 9.
- Robertson, R.*—Address as Chairman of Glasgow Local Section. Nov. 8. G.
- Ruddle, M.*—Address as Chairman of Dublin Local Section. Nov. 10. D.
- Schwartz, A., and W. H. N. James.*—Low-Tension Thermal Cut-Outs. Mar. 15. M.
- Searle, G. F. C.*—Studies in Magnetic Testing. Dec. 8.
- Siemens, A.*—Inaugural Address as President. Nov. 10.
- Sumpner, W. E.*—The Use of Iron in Alternate Current Instruments. Nov. 23. B.
- Tait, C. D.*—Address as Chairman of Manchester Local Section. Nov. 18. M.

- Taylor, A. M.*—Stand-By Charges and Motor Load Development. Dec. 14. B.
Thornton, W. M.—Some Effects in Three-Phase Working. Feb. 27. N.
Walker, Miles.—Compensated Alternate Current Generators. Nov. 29. M.
Webb, H. L.—Telephone Traffic. May 11.
Wilson, H. W.—The Electrical Operation of Textile Factories. Jan. 17. M.
Wolf, F. A.—The So-Called International Electrical Units. (St Louis, 1904.)

THE JUNIOR INSTITUTION OF ENGINEERS,

(Formerly the Institution of Junior Engineers),

39 VICTORIA STREET, WESTMINSTER. (FOUNDED 1884.)

Officers.—*President*: W. H. Lindley, M.I.C.E. *Secretary*: W. T. Dunn.

Meetings.—First Friday in each month at 8 P.M. (at Westminster Palace Hotel), from November to May inclusive. The General Meeting takes place in October. Visits are frequently made to Engineering Works.

Membership.—Members Subscription: Variable, from 12s. to 21s., according to category; Entrance Fee, £1, 1s.

Publication.—*Transactions*, Vol. XIV., price 10s. 6d.

Papers read during Session 1904–1905.

- Boot, J. N., A.M.I.M.E.*—Condensing Plant. May 5.
Davidge, Prof. H. T., Wh.Sc.—Recent Development in Electric Lighting. Feb. 3.
Hughes, G. H., M.I.M.E.—Practical Notes on Waterworks' Construction. Apr. 7.
Lambert, L. C.—The Influence of the Depth of Water on the Speed of Vessels. May 5.
Leves, Prof. V.B., F.I.C., F.C.S.—The Theory of the Incandescent Mantle. Jan. 13.
Lindley, W. H., M.I.C.E., F.G.S.—President's Address on Municipal Engineering on the Continent. Nov. 18.
Longland, W., A.M.I.M.E.—Possible Improvements in Locomotive Practice. Mar. 3.
Yarrow, H. E.—Some Points of Interest in the Construction of Torpedo Boats. Dec. 2.

THE SURVEYORS' INSTITUTION,

12 GREAT GEORGE STREET, S.W.

(FOUNDED 1868; INCORPORATED BY ROYAL CHARTER, 1881.)

Officers.—*President*: Charles Bidwell. *Secretary*: Alexander Goddard.

Meetings.—Alternate Mondays in each month, from November to May, at 8 P.M. The Annual Meeting takes place the last Monday in May.

Membership.—

| | Annual Subscription. | | | Admission Fee. | | |
|----------------------|----------------------|----|----|----------------|----|----|
| | £ | s. | d. | £ | s. | d. |
| Fellow, | 3 | 3 | 0 | 5 | 5 | 0 |
| Associate, | 2 | 2 | 0 | 3 | 3 | 0 |

Publications.—*Transactions, and Professional Notes.*

*List of Papers read during Session 1904–1905, and published in
“Transactions” fortnightly, for Members only.*

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| <i>Cautley, H. M.</i> — Farm Buildings. Apr. 10. | <i>Michelmores, A.</i> — The Agriculture of South Devon. May 25. |
| <i>Griffin, H.</i> — Some Proposals for Improving the Law and Practice of Rating. Feb. 27. | <i>Morten, E.</i> — Surveyors' Reports and Certificates. Mar. 13. |
| <i>Harris, J. N.</i> — Agricultural Organisation. May 25. | <i>Shorts, G. R.</i> — Exeter. May 25. |
| <i>Jopling, J.</i> — Notes on Clayworking. Dec. 12. | <i>Stenning, A. R.</i> — Urban and Rural Bye-Laws and Suggested Amendments. Jan. 16. |
| <i>Lyons, F. O.</i> — The Rating of Railways. Mar. 27. | <i>Steward, H. T.</i> — The Opening Address. Nov. 14. |
| <i>Mann, C. J.</i> — The Building Surveyor: his Training and Practice. Nov. 28. | <i>Wallis, J. D.</i> — The Licensing Act, 1904, with Special Reference to the Questions of Compensation and Monopoly Value. May 15. |
| <i>Menzies, W.</i> — Building Bye-laws in Rural Districts. Jan. 16. | |

THE INCORPORATED ASSOCIATION OF MUNICIPAL AND COUNTY ENGINEERS,

11 VICTORIA STREET, WESTMINSTER, S.W. [Telegrams: “Bisecting, London”; Telephone: 5083, Westminster.]

Officers.—*President:* A. E. Collins, M.Inst.C.E. *Secretary:* Thomas Cole, A.M.I.C.E., 11 Victoria Street, S.W.

Meetings.—The Annual Meeting takes place in June or July. District Meetings are held in the Provinces to suit Local Circumstances. About seven of these are held each year.

Membership.—Members: Entrance Fee, 21s.; Annual Subscription, 21s. Associates: Entrance Fee, 21s.; Annual Subscription, 15s. Graduates: Annual Subscription, 10s. 6d.

Publication.—*Proceedings*, Vol. XXX., price 21s.

*List of Papers read during Session 1904–1905, and published in
“Proceedings,” Vol. XXX., 21s.*

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| <i>Anderson, J. T.</i> — Tramway Track Construction. | <i>Hodgson, J. S.</i> — American Sewer Design. |
| <i>Bishop, H. C.</i> — Newport Electricity Works. | <i>Le Rossignol, A. E.</i> — Newcastle Tramways. |
| <i>Carr, I.</i> — Widnes Gas and Water Works. | <i>Mawbey, E. G.</i> — Sewer Ventilation. |
| <i>Clarke, W.</i> — Clee Hill Basalt. | <i>Mitchell, G.</i> — Reservoir Construction. |
| <i>Conway, G. R. G.</i> — Aberdeen Cable Subway and Sewer. | <i>Palmer, P. H.</i> — Hastings Water Supply. |
| <i>Creer, A.</i> — York Sewerage. | — Water Balance Passenger Lift. |
| <i>Davis, A. T.</i> — Presidential Address. | <i>Scott-Moncrieff, W. D.</i> — The Sewage Problem Solved. |
| <i>Dyack, W.</i> — Aberdeen Municipal Works. | <i>Sinclair, J. S.</i> — Municipal Works of Widnes. |
| <i>Edge, F. J.</i> — Newcastle Municipal Works. | <i>Smythe, F.</i> — Isolation Hospitals. |
| <i>Gordon, J.</i> — Aberdeen Waterworks. | <i>Taylor, G. M.</i> — Shrewsbury Main Drainage. |
| <i>Grieves, W. H.</i> — Buxton Municipal Works. | <i>Vignolles, W. A.</i> — Great Grimsby Electricity Works. |
| <i>Haynes, R. H.</i> — Newport Municipal Works. | <i>Weaver, W.</i> — L.C.C. By-Laws re Drainage Plans. |

Webster, J. J.—Transporter Bridge over Mersey.
Whyatt, H. G.—Great Grimsby Municipal Works.
 — Ventilation of Sewers.

Wilding, J.—Runcorn Municipal Works.
Wood, A. J.—Newport Borough Asylum.

THE ROYAL INSTITUTE OF BRITISH ARCHITECTS,

9 CONDUIT STREET, HANOVER SQUARE, W.

(FOUNDED 1834; INCORPORATED 1837 and 1887.)

Officers.—*President*: John Belcher, A.R.A. *Secretary*: W. J. Locke, B.A.

Meetings.—On Monday evenings at 8 P.M. The Annual Meeting takes place on the first Monday in May.

Membership.—

| | Entrance Fee. | Annual Subscription. |
|----------------------------|---------------|----------------------|
| | £ s. d. | £ s. d. |
| Fellows, | 5 5 0 | 4 4 0 |
| Associates, | 3 3 0 | 2 2 0 |
| Hon. Associates, | 2 2 0 | 2 2 0 |

Publications, 1904.—*Journal*, fortnightly during the Session, monthly in the Summer (20 Nos. annually), price 1s. or 2s. 6d., according to size; Volume, 24s.; *Kalendar of the Institute*, 2s. 6d.; *Examination Papers*, 1s.; *Report of the Lightning Research Committee*, with Preface by Sir Oliver Lodge, 1s.

List of Papers read (or contributed) during Session 1904–1905, and published in "Journal of the Institute."

Blomfield, R.—Architectural Education. Feb. 20.

Dunn, W.—Construction and Strength of Reinforced Concrete. Nov. 21.

Lee, T. S., and W. R. Stephens.—Sculpture and Architecture. May 15.

Macartney, M.—Garden Architecture. Apr. 17.

Mouchel, L. G.—Monolithic Construction in Hennebique Ferro-Concrete. ov. 21.

Pite, B., and J. W. Simpson.—The Planning of Cities and Public Spaces. Apr. 3.

Ransome, J.—European Architecture in India. Jan. 23.

Richmond, Sir W., R.A., A. East, A.R.A., and J. Solomon, A.R.A.—Decorative Painting. Mar. 20.

Ridge, L. W., and J. S. Gibson.—Architecture and Building Acts. Dec. 19.

THE ARCHITECTURAL ASSOCIATION, LONDON,

18 TUFTON STREET, WESTMINSTER, S.W.

Officers.—*President*: E. Guy Dawber, F.R.I.B.A. *Secretary*: D. G. Driver, 18 Tufton Street, Westminster, S.W.

Membership.—Annual Subscription, One Guinea; Entrance Fee, Two Guineas.

Meetings.—Ordinary Meetings are held at 18 Tufton Street on alternate Friday evenings, from October to May inclusive, at 7.30 P.M. The Annual Meeting takes place in October.

Publications.—Annual *Brown Book*, 2s. 6d.; *Notes*, 3d. Monthly; *The Architectural Association Sketch Book* (in quarterly parts) 21s. per annum.

List of Papers read during Session 1904–1905, and published in the "Builder" a week after delivery.

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| <i>Cox, A.</i> —Libraries. Jan. 6. | <i>Lanchester, H. V.</i> —Law Courts. Mar. 10. |
| <i>Davison, T. R.</i> —Some Architectural Reflections. Dec. 9. | <i>Micklethwaite, J. T., and E. P. Warren.</i> —Excavations in Westminster. Nov. 25. |
| <i>Dawber, E. G.</i> —Presidential Address. Sept. 30. | <i>Smith, F. J. O.</i> —Country Houses and Accessory Buildings. Feb. 24. |
| <i>Dockree E.</i> —Photography as Applied to Architecture. Oct. 14. | <i>Spooner, C. S.</i> —Church Fittings. Feb. 10. |
| <i>Fletcher, H. P.</i> —St Louis Exhibition, 1904. Apr. 7. | <i>Stennan, W.</i> —Ventilation. Nov. 11. |
| <i>Fulton, J. B., and E. F. Reynolds.</i> —Byzantine Architecture. Jan. 27. | |

THE SOCIETY OF ARCHITECTS,

STAPLE INN BUILDINGS, HOLBORN, W.C.

(FOUNDED 1884; INCORPORATED 1893.)

Telephone: 1852 Holborn. Telegrams: "Crypt," London.

Officers.—*President*: Walter W. Thomas. *Hon. Secretary*: Ellis Marsland.
Secretary: C. M'Arthur Butler, Staple Inn Buildings South, Holborn, W.C.

Meetings.—The Ordinary Meetings are held on Thursdays once a month, from November to May, at 8 P.M. The next Annual Meeting takes place October 19th.

Membership.—Entrance Fee, 42s.; Annual Subscription, 42s.

Publications.—*Year Book and List of Members*, 2s. (Nov.); *The Architects' Magazine*, monthly, 6d.

List of Papers read during Session 1904–1905.

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| <i>Discussion on the Ownership of Drawings.</i> Dec. 15. | —The Statutory Registration of Architects. May 18. |
| <i>Bamber, H. K. G.</i> —Portland Cement. Apr. 13. | <i>Pridmore, G. W.</i> —The Use of Metal Work in Mediæval and Modern Lighting Appliances. Mar. 16. |
| <i>Croger, T. R.</i> —Some Historic Buildings in the City of London. Jan. 19. | <i>Tucker, B. E.</i> —The Lighting of Buildings, etc., by Electricity and Incandescent Gas. Feb. 16. |
| <i>Hubbard, G., and A. W. S. Cross.</i> | |

THE INSTITUTION OF GAS ENGINEERS,

39 VICTORIA STREET, WESTMINSTER, S.W.

(With which is Amalgamated the Incorporated Institution of Gas Engineers.)

Officers.—*President*: Charles Wood. *Secretary*: Walter T. Dunn, F.C.I.S.

Meetings.—The Annual General Meeting is held in June.

Membership.—Entrance Fee, £1, 1s.; Annual Subscription, 21s.

List of Papers presented at Annual General Meeting held at London, in June 1905, and published in "Transactions," price 10s. 6d. Post free, 11s.

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| <i>Bond, J.</i> —Pyrometers and Carbonisation. | Fund in Connection with the Institution. |
| <i>Brown, J. H.</i> —Experiments with Low-Grade Mixed Gases. | <i>Herring, W. R.</i> —The Manufacturing Costs at the Granton Works. |
| <i>Carpenter, C. C.</i> —The Report of the Recent Departmental Committee upon Metropolitan Gas Testing. | <i>Irving, D.</i> —President's Address. |
| <i>Gibb, W. D.</i> —Notes on Structural Engineering. | <i>Riley, E. C.</i> —Incandescent Gas Lighting for Railway Trains and Rail Motors. |
| <i>Helps, J. W.</i> —Report on the Proposed Establishment of an Investigation | <i>Smithells, Prof. A.</i> —Lecture on the Temperature of Flame. |
| | <i>Wilson, A.</i> —Outside Producers for Retort Houses. |

THE BRITISH ASSOCIATION OF WATER WORKS ENGINEERS,

54 PARLIAMENT STREET, WESTMINSTER. (ESTABLISHED 1896.)

Officers.—*President*: P. H. Palmer, M.I.C.E., A.M.Inst.C.E. *Secretary*: Percy Griffith.

Meetings.—The Anniversary Meeting takes place in Summer months. A meeting is also held once during the Winter.

Membership.—Entrance Fee, £2, 2s. and £1, 1s.; Annual Subscription, £1, 1s. and 10s. 6d.

List of Papers read in 1904, and published in the "Transactions," Vol. IX., 10s.

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| <i>Bancroft, F. J.</i> —The Hull Water Supply. | <i>Middleton, R. E.</i> —Administration and Control of the Nation's Water Supply. |
| <i>Devonshire, E.</i> —Antwerp Waterworks. | <i>Mitchell, G.</i> —Appleton Extensions of the Warrington Waterworks. |
| —Municipal and Suburban Water Supplies of Brussels. | <i>Richardson, J. W. M.</i> —Efficiency Trials of Air Lift Pumping Plant for the Corporation of Birkenhead. |
| <i>Hutton, J.</i> —Electrically Driven Pumping Plant for Water Supply, and Storage of Water under Pressure. | <i>Smith, C. C., and Dr Chaplin.</i> —Treatment of Moorland Water. |
| <i>Kendal, Prof. P.</i> —Geological Structure of South-East Yorkshire. | <i>Thresh, Dr J. C.</i> —Practical Definition of "Pure and Wholesome Water" and "Pollution." |
| <i>Latham, F. B.</i> —Water Supply of Penzance, and the Hydro-Geology of Cornwall. | <i>Watts, W.</i> —Concrete and Puddle for Reservoir Embankments. |
| <i>Meysey-Thompson, and H. Lupton.</i> —Working Costs of Waterworks' Pumping Engines. | |

THE COLD STORAGE AND ICE ASSOCIATION,

19 LUDGATE HILL, LONDON, E.C.

Officers.—*President*: Sir Charles Petrie, J.P. *Hon. Treasurer*: W. B. Esson, 127 Adelaide Road, Hampstead, London, N.W. *Hon. Secretary*: R. M. Leonard, 19 Ludgate Hill, London, E.C.

Objects.—The Promotion of the Scientific, Engineering, and Hygienic Aspects of the Subjects of its Title, and its further Practical Development. The Society endeavours to realise the above Objects by holding Meetings, etc., at which such Subjects are discussed.

List of Papers read at Meetings during Session 1904–1905.

Cameron, H. C.—Resources of New Zealand, with Special Reference to the Dairy Produce and Frozen Meat Industries. Dec. 6.

Lance, C. C.—Growth and Influence of Refrigeration in Australia. May 6.

Page, C.—Ammonia: the Process of

Manufacture from Coal to Pure Ammonia. Mar. 7.

Stetefeld, R.—Relative Value of Refrigerating Machines on the Compression System, and the Relative Value of Wet and Dry Air Cooling. Oct. 31.

COUNTRY.

BIRMINGHAM ARCHITECTURAL ASSOCIATION,
NORWICH UNION CHAMBERS, CONGREVE STREET. (FOUNDED 1873.)
(*Affiliated with the Architectural Association, London.*)

Officers.—*President*: Thomas Cooper, F.R.I.B.A. *Hon. Secretaries*: G. McMichael, A.R.I.B.A., 105 Colmore Row; A. D. Thacker.

Meetings.—On alternate Fridays at 6.45 P.M. from October to March.
The Annual Meeting is held in October.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription: Members, 21s.; Associates, 10s. 6d.

List of Papers read during Session 1904–1905.

Bolton, A., A.R.I.B.A.—Ingram House, or Residential Clubs for Young Men. Mar. 3.

Colclutt, T. E., F.R.I.B.A.—The New Savoy. Feb. 3.

Cross, A. W., M.A., and G. Hubbard, F.S.A.—The Statutory Qualification of Architects. Mar. 10.

Farrow, F. R., F.R.I.B.A.—Minor Mathematics. Jan. 20.

Henman, W., F.R.I.B.A.—The Future of our City. Feb. 17.

Lodge, Sir O., D.Sc., LL.D., F.R.S.—Lightning Conductors. Nov. 11.

Marshall, A., A.R.I.B.A.—Photographic Medley. Mar. 17.

Reynolds, E. F.—Buildings of Cairo and Constantinople. Nov. 25.

Swan, J. A.—The B.A.A. Excursion to Bruges. Mar. 31.

Watson, W. C., M.A.—Some Churches and other Buildings in Galicia and North-West Spain. Jan. 6.

THE INSTITUTION OF MINING ENGINEERS.

Comprising the North of England Institute of Mining and Mechanical Engineers, the Midland Counties Institution of Engineers, the North Staffordshire Institute of Mining and Mechanical Engineers, the Midland Institute of Mining, Civil, and Mechanical Engineers, the South Staffordshire and East Worcestershire Institute of Mining Engineers, the Mining Institute of Scotland, and the Manchester Geological and Mining Society. Independent action is left to each Institute as hitherto, but all the Papers read are now published in one journal. (1904).

Officers.—*President :*

Hon. Secretary : M. Walton
Brown, Neville Hall, Newcastle-on-Tyne.

Meeting, 1905.—Annual Meeting, September 13 to 15 (Manchester).

Membership.—Number of Members, over 3000. Each Society pays a Capitation Grant.

List of Papers read during 1904, and published in "Transactions," 2 Vols. annually, price £1, 16s. each.

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| <i>Brown, H. F.</i> —A New Process of Chlorination for Mixed Gold and Silver Ores. June 3. | Locomotives in American Mines. June 2. |
| <i>Brown, M. W.</i> —Barometer, Thermometer, etc., Readings for the Year 1903. | <i>Redmayne, R. A. S.</i> —The Mining Department of the University of Birmingham. Sept. 14. |
| <i>Cadman, J. C.</i> —Presidential Address. June 2. | <i>Robertson, E. H.</i> —The Problem of Dynamic Balance. Sept. 14. |
| <i>Dvorkoviz, P.</i> —Petroleum, and its Use for Illumination, Lubricating, and Fuel Purposes. June 3. | <i>Roscamp, J. C.</i> —An Improved Apparatus for Laying Dust in Coal-Mines. Sept. 14. |
| <i>Eoll, A. F.</i> —The Hammer-Fennel Tachymeter-Theodolite. June 2. | <i>Saunders, W. T.</i> —Tin-Mining in the Straits Settlements. June 2. |
| <i>Farmer, G.</i> —The Problem of Gob-Fires. Sept. 14. | — Notes on the Principal Gold-Mining Districts and Mines of Western Australia. Sept. 14. |
| <i>Greener, G. A.</i> —The Coal-Fields of the Farøe Islands. June 2. | <i>Sawyer, A. R.</i> —The Transvaal Kromdraai Conglomerates. June 3. |
| <i>Hoefler, H.</i> —Underground Temperatures, especially in Coal Mines. June 2. | — The South Rand Gold-Field, Transvaal. June 3. |
| <i>Holiday, R.</i> —A Comparison of Three-Phase and Continuous Currents for Mining Purposes. June 2. | <i>Scott, D. D.</i> —Mine-Surveying Instruments : Part 2. Sept. 14. |
| <i>Lishman, G. P.</i> —The Analytical Valuation of Gas-Coals. June 3. | <i>Stonier, G. A.</i> —Graphite-Mining in Ceylon and India. June 3. |
| <i>Louis, H.</i> —Coal-Mining in Asturias, Spain. Sept. 14. | — The Bengal Coal-Fields, and some Methods of Pillar-Working in Bengal, India. Sept. 14. |
| <i>Merivale, J. N.</i> —The Prevention of Accidents in Winding. June 3. | <i>Walker, S. F.</i> —The Report of the Departmental Committee on the Use of Electricity in Mines. June 2. |
| <i>Monckton, G. F.</i> —Cinnabar-Bearing Rocks of British Columbia. June 3. | <i>Watteyne, V.</i> —The Purpose and Present State of the First Experiments on Safety-Lamps and Explosives carried out at the Frameries Experimental Station, Belgium. June 3. |
| <i>Randolph, B. S.</i> —Comparison of Electric and Compressed-Air | |

BRITISH SOCIETY OF MINING STUDENTS, QUEEN'S CHAMBERS, 5 JOHN DALTON STREET, MANCHESTER.

Officers.—*President :* H. Rhodes. *Hon. Secretary :* W. W. Lee.

Meetings.—The Annual Meeting takes place in July.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 10s.; Life Composition, £5.

Publication.—*Journal*, monthly, 2s.

List of Papers read during Session 1904–1905.

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| <i>Bell, J.</i> —Shaft Bottom Arrangements. | <i>Kearlton, C.</i> —Gravitation of Fire-Damp. |
| <i>Duffy, C.</i> —Steam Haulage in Coal-Mines. | <i>Palmer, M.</i> —Notes on the Mickley Longwall Coal Conveyor for Use in Thin Seams. |

BRITISH ASSOCIATION OF MANAGERS OF TEXTILE WORKS,

27 BRAZENNOSE STREET, MANCHESTER.

Officers.—*President*: W. Bleakley. *Secretary*: H. J. Lunt, 27 Brazennose Street, Manchester.

Meetings.—The second Saturday of each month at 6 P.M.

Membership.—No Entrance Fee; Annual Subscription, 21s.

List of Papers read during Session 1904–1905.

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| <i>Beaumont, Prof.</i> —Some Aspects of Textile Teaching. July 23. | <i>Longridge, M.</i> , M.I.C.E.—The Use of Gas, Oil, or Steam for Power Sept. 10. |
| <i>Bowman, Dr F. H.</i> , F.R.S.E., etc.—The Transmission of Power in Textile Factories. Apr. 14. | <i>Paine, S. B.</i> —Electrical Centralisation of Power. Aug. 9. |
| <i>Fox, Prof. T. W.</i> —The Preparation of Threads for Weaving. Jan. 14. | <i>Schliffer, F.</i> —Modern Methods in Economical Steam-Raising. May 14. |
| <i>Hall, O. S.</i> —The Development of the Loom. July 16. | <i>Stuart, H. T. R.</i> —Bleaching, Dyeing, and Printing. July 9. |
| <i>Hobson, S. G.</i> —The Functions of a Manager. Feb. 18. | <i>Thomson, W.</i> , F.R.S. Edin.—Notes on Sizing and Finishing. Oct. 8. |
| <i>Hurst, J.</i> —The Principles of the Law Relating to Employer's Liability. Mar. 11. | <i>Thornley, T.</i> —Preparing, Spinning, and Doubling. June 11. |
| <i>Lester, J. H.</i> , M.Sc. — Moisture in Yarn. Dec. 10. | |

MIDLAND COUNTIES INSTITUTION OF ENGINEERS,

UNIVERSITY COLLEGE, NOTTINGHAM. (FOUNDED 1871.)

Officers.—*President*: W. G. Phillips. *Secretary*: G. A. Lewis, Albert Street, Derby.

Membership.—Entrance Fee, for Members and Associate Members, 21s.; Annual Subscription: for Members and Associate Members, 31s. 6d.; for Associates and Students, 20s.

Publication.—*The Transactions of the Institution of Mining Engineers* (monthly).

LIVERPOOL ARCHITECTURAL SOCIETY,

13 HARRINGTON STREET (INCORPORATED).

Officers.—*President*: P. C. Thicknesse. *Hon. Secretaries*: G. Fraser, A.R.I.B.A., 67 Lord Street, Liverpool; Ernest Aldridge, 14 Castle Street.

Meetings.—Ordinary Meetings on the first and third Mondays in the six winter months.

Membership.—Entrance Fee: Fellows, £1, 1s. Annual Subscription: Fellows, £2, 2s.; Associates, £1, 1s.; Students, 10s. 6d.

Publications.—*Annual Report, Schedule of Charges*, 6d.

List of Papers read during Session 1904–1905.

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| <p><i>Adams, M. B., F.R.I.B.A.</i> — More about Modern Libraries. Dec. 5.</p> <p><i>Bankhart, G. P.</i> — Lead Work. Mar. 6.</p> <p><i>Fulton, J. B.</i> — How to Attain Original Thought in Architecture. Feb. 6.</p> <p><i>Kirby, B. E.</i> — The Building of York Minster. Jan. 16.</p> <p><i>Mitchell, A., F.R.I.B.A.</i> — The Study of Mediæval Work. Nov. 21.</p> <p><i>Morton, G. H.</i> — Modern Decoration. Oct. 17.</p> | <p><i>Murray, J.</i> — Scotch Plaster-Work of the Sixteenth and Seventeenth Centuries. Dec. 19.</p> <p><i>Oglesby, R. P.</i> — Sir John Vanbrugh, Dramatist and Architect. Nov. 7.</p> <p><i>Rimington, F.</i> — Small Houses of Today. Mar. 20.</p> <p><i>Thicknesse, P. C.</i> — Opening Address by President. Oct. 10.</p> <p><i>Thompson, G. E.</i> — Architecture of many Countries. Feb. 20.</p> <p><i>Wilson, J.</i> — The Palace of Versailles. Jan. 2.</p> |
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LIVERPOOL ENGINEERING SOCIETY,

ROYAL INSTITUTION, COLQUITT STREET. (FOUNDED 1875.)

Officers.—*President*: F. E. Priest, M.Inst.C.E. *Hon. Secretary*: R. C. F. Annett, A.M.Inst.C.E., 4 Buckingham Avenue, Sefton Park.

Meetings.—On alternate Wednesdays, from November to April, at 8 P.M. The Annual General Meeting is held on the last Wednesday in April.

Membership.—Annual Subscription: for resident Members and Associates, 21s.; non-resident Members, Associates, and Students, 10s. 6d.; Life Composition, 10 Guineas.

Publication.—*Transactions*, annually, price 7s. 6d.

List of Papers read before the Society during Session 1904–1905.

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| <p><i>Allen, E., M.I.G.E.</i> — Some Engineering Problems in Gas Works. Nov. 16.</p> <p><i>Duncanson, T., M.I.C.E.</i> — Flow of Water in Pipes, Channels, and Rivers. Feb. 8.</p> <p><i>Ellis, S. H., A.M.I.C.E.</i> — Notes on some Hydraulic Limes. Nov. 30.</p> <p><i>Grundy, J., M.I.N.A.</i> — Ship and Engine Equipment. Jan. 11.</p> | <p><i>Molyneux, T.</i> — Heavy Motor Vehicles. Dec. 14.</p> <p><i>Steele, F. W.</i> — Design and Work of Pressing, Stamping, Forging, and Similar Machinery. Jan. 25.</p> <p><i>Sutcliffe, F.</i> — Sundry Notes on Dock Construction. Feb. 22.</p> <p><i>Wilson, H. W., A.M.I.E.E.</i> — Electrification of Railways. Mar. 8.</p> |
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MANCHESTER SOCIETY OF ARCHITECTS,

36 SPRING GARDENS.

Officers.—*President*: J. H. Woodhouse, F.R.I.B.A. *Hon. Secretary*: Paul Ogden, F.R.I.B.A. *Secretary*: A. S. Brewis, F.C.A.

Meetings.—The Anniversary Meeting is held in April, and Ordinary Meetings on the second Thursday in each month, October to March inclusive, at 6.45 P.M.

Membership.—Entrance Fee: for Fellows, 42s.; for Associates, 21s.; for Students, 10s. 6d. Annual Subscription: for Fellows, 21s.; for Associates, 15s.; for Students, 10s. 6d.

Publications.—*Kalendar*, 1904–1905, price 3d. *Sketch Book*, Parts 1 and 2, price 2s. 6d. *List of some Old Buildings in an Area of 70 miles square around Manchester.*

List of Papers read during Session 1904–1905.

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| <p><i>Glazier, R.</i>, A.R.I.B.A., A.R.C.A.—Early Renaissance Architecture of Florence. Feb. 9.</p> <p><i>Hall, E. F.</i>, F.R.I.B.A. — Hospital Design and Construction Generally. Dec. 8.</p> | <p><i>Stannus, H.</i>, A.R.I.B.A.—Some Romanesque in North Italy. Jan. 12.</p> <p><i>Sutcliffe, J. D.</i>—The Science of Ventilation, with a Comparison of the Advantages and Hints in Natural and Mechanical Ventilation. Nov. 10.</p> |
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**NORTH-EAST COAST INSTITUTION OF ENGINEERS
AND SHIPBUILDERS,**

4 ST NICHOLAS BUILDINGS, NEWCASTLE-ON-TYNE.

(FOUNDED 1884.)

Officers.—*President*: Rt. Hon. Lord Armstrong. *Secretary*: John Duckitt.

Meetings.—Monthly, from October to May. The Anniversary Meeting takes place in October.

Membership.—No Entrance Fee; Annual Subscription varies from Half a Guinea to Two Guineas; Life Composition, 10 and 20 Guineas.

Publication.—*Transactions* (see below).

List of Papers read during Session 1904–1905, and published in "Transactions," Vol. XXI., price 21s. Papers are also published in pamphlet form, at various prices.

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| <p><i>Cummins, W. R.</i>—A Comparison of Vertical and Horizontal Tubes in Water-Tube Boilers. Nov. 25.</p> <p><i>Dickie, J.</i>—Launch of the U.S.A. Cruiser <i>South Dakota</i>, San Francisco. Dec. 16.</p> <p><i>Little, F.</i>—Petrol Motor Cars. Jan. 20.</p> | <p><i>Morison, D. B.</i>—Board of Trade Regulations for Certified Marine Engineers. Mar. 3.</p> <p>—Boiler Furnaces and the Effect of Oil on their Ultimate Strength. Apr. 14.</p> <p><i>Snell, J. F. C.</i>—Application of Electricity to Industrial Purposes. Feb. 24.</p> |
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**NORTH OF ENGLAND INSTITUTE OF MINING AND
MECHANICAL ENGINEERS,**

NEVILLE HALL, NEWCASTLE-ON-TYNE.

(FOUNDED 1852; INCORPORATED BY ROYAL CHARTER IN 1876.)

Officers.—*President*: T. W. Benson. *Secretary*: M. Walton Brown, Neville Hall.

Meetings.—Second Saturday in February, April, June, October, and December. The Anniversary Meeting takes place the first Saturday in August.

Membership.—Number of Members (July 31, 1903), 1350. No Entrance Fee. Annual Subscription: for Members and Associate Members, 42s.; for Associates and Students, 25s.

List of Papers read during Session 1904-1905, and published in "Transactions" of The Institution of Mining Engineers, 2 volumes per annum, £1, 16s. per volume.

- Ashworth, J.*—Observations on Water-sprayed or Damped Air in Coal Mines. Feb. 11.
Batey, J. W.—The Mickley Conveyor. Apr. 8.
Beard, J. T.—The Action, Influence, and Control of the Roof in Long-wall Workings. Dec. 10.
Brown, E. O. F.—A Method of Packing Excavations in Coal Seams by Means of Water. Dec. 10.
Dodds, R.—Note on a Natural Paraffin found in the Ladysmith Pit, Whitehaven Collieries. Apr. 8.
 — Note on the Composition of Coal from the Farøe Islands. Apr. 8.
Holliday, M. F.—Outbreak of Fire, and its Cause, at Littleburn Colliery. June 10.
Lawrence, H.—An Improved Watering-Tub for Laying Dust in Coal Mines. June 10.
Lishman, G. P.—Notes on Safety-Lamp Oils. Dec. 10.
Oliver, T.—The Miner's Worm-Disease as seen in Westphalian and Hungarian Collieries. Oct. 8.
Piffart, J. H.—The Use of Cement-Concrete in the Working of Thick Coal Seams. Apr. 8.
Robertson, E. H.—The Action, Influence, and Control of the Roof in Long-wall Workings. Feb. 11.
Stuart, D. M. D.—The Development of Explosives for Coal Mines. June 10.
Thompson, R. R.—Note on the Calorific Effect of Coal from the Farøe Islands. Apr. 8.
 — Note on the Composition of Dover Coal. Apr. 8.

NORTHERN ARCHITECTURAL ASSOCIATION,

13 GREY STREET, NEWCASTLE-ON-TYNE.

Officers.—*President*: J. T. Cockett, F.R.I.B.A. *Hon. Secretary*: A. B. Plummer, F.R.I.B.A., 13 Grey Street, Newcastle-on-Tyne.

Meeting.—The Anniversary Meeting takes place in March.

Membership.—Entrance Fee, 21s. and 10s. 6d.; Annual Subscription, 21s., 10s. 6d., 5s.

*List of Papers read from December 1904 to February 1905. Those marked * have been published in the R.I.B.A. Journal.*

- Hedley, R.*, R.B.A. — Architectural Details. Feb. 14.
Reid, J. E.—Designing for Mosaics and Stained Glass. Jan. 31.*
Twissell, R. P. S., A.R.I.B.A.—The Evolution of Domestic Architecture. Jan. 17.*
Windley, Rev. H. C., M.A.—English Church Architecture in its Relation to English History. Dec. 6.*
Wood, W. H.—Design and Construction of the Spire of Newcastle Cathedral. Feb. 28.*

THE STAFFORDSHIRE IRON AND STEEL INSTITUTE

(Formerly known as the South Staffordshire Institute of Iron and Steel Works' Managers),

THE INSTITUTE, WOLVERHAMPTON STREET, DUDLEY.

(FOUNDED 1866.)

Officers.—*President*: Walter Jones. *Secretary*: W. H. Carder, Tividale Road, Burnt Tree, Tipton.

Meetings.—Monthly on Saturdays at 7 P.M., September to April inclusive. The Anniversary is on the last Saturday in April.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 10s. 6d.; Life Composition: Honorary Members, £10, 10s.; Ordinary Members, £5, 5s.

List of Papers read during Session 1904–1905, and published separately at various prices. The "Proceedings" for Session 1904–1905 may be purchased for 10s. 6d.

Calderwood, J.—Some Ideas: Wise and Otherwise. Mar. 25.

Hamilton, J. H.—The Gas Engine in Iron and Steel Works. Nov. 26.

Hudson, O. F.—The Microstructure of Cast Iron. Feb. 18.

Stansbie, J. H.—The Electric Smelting of Iron and Steel. Oct. 29.

Tarbolton, C. E.—The Stirling Boiler. Jan. 21.

Toy, H. B.—Presidential Address. Oct. 15.

Trinham, J. S.—The Garrett Reheating Furnace. Dec. 17.

SOUTH STAFFORDSHIRE AND WARWICKSHIRE INSTITUTE OF MINING ENGINEERS,

THE UNIVERSITY, BIRMINGHAM.

Officers.—*President:* Prof. R. A. S. Redmayne. *Secretary:* Alexander Smith, M.Inst.C.E., 3 Newhall Street, Birmingham.

Meetings.—First Monday in February, April, June, October, and December, at the University, Birmingham, at 3 P.M. The Anniversary Meeting takes place in October.

Membership.—Subscriptions: Members and Associate Members, 31s. 6d.; Associates and Students, 21s. Entrance Fee: Members and Associate Members, 21s.; Associates and Students, 10s. 6d.; Life Composition, £15.

Publication.—*Abstract of the Report of the Prussian Commission on Falls of Stone and Coal* (Roy. 8vo, 104 pp., illustrated), price 1s.

List of Papers read during Session 1904–1905, and published in the "Transactions" of Institution of Mining Engineers.

Fox, J.—Tapping a 600-ft. Head of Water. Apr. 3.

Holland, L.—Problems of Working Thick Coal in Deep Mines. Jan. 16.

— Discussion. Apr. 3.

Lynch, W.—Pneumatic Coal Boring Machines. Feb. 6.

Redmayne, Prof. R. A. S.—Inaugural Address.

— Deep Mining. Oct. 17.

SOUTH WALES INSTITUTE OF ENGINEERS,

PARK PLACE, CARDIFF.

(FOUNDED 1857; INCORPORATED 1881.)

Officers.—*President:* E. M. Hann, M.I.C.E. *Secretary:* J. J. Price, B.A., Castleton, Cardiff.

Meetings.—First Monday in January, April, July, and October, at 3 P.M. The Anniversary Meeting takes place in April.

Membership.—No Entrance Fee ; Annual Subscription, 42s. ; Life Composition, 25 Guineas.

Publication.—*Proceedings* (quarterly), price 3s. to 4s. per number.

SCOTLAND.

INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND,

207 BATH STREET, GLASGOW. (FOUNDED 1857.)

Officers.—*President*: A. Denny, F.R.S.E. *Secretary*: Edward H. Parker.

Meetings.—Monthly, on the third Tuesday, from October to April inclusive.
Annual Meeting in April.

Membership.—Annual Subscription: Members, £2; Associate Members, £1; Associates, £1, 10s.; Students, 10s.; Entrance Fee, £1; Life Members, £25.

List of Papers read during Session 1904–1905.

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| <i>Bruhn, J.</i> , D.Sc.—Methods of Estimating the Strength of Ships. | <i>Kenyon, E.</i> —The Transmission of Power by Ropes. |
| <i>Gray, Prof. A.</i> , LL.D., F.R.S.—Gyrostats and Gyrostatic Action. | <i>MacColl, H.</i> —The Breakage and Renewal of a Large Cylinder. |
| <i>Henderson, J. B.</i> , D.Sc.—Some Notes on the Effects likely to be Produced by the Gyroscopic Action on Steam-Turbines on Board Vessels Pitching in a Sea. | <i>Melencovich, A.</i> —Multiple Steam-Turbines. |
| | <i>Riekie, J.</i> —The Compounding of Locomotive Engines. |
| | <i>Rowan, F. J.</i> —The Smoke Problem. |

THE MINING INSTITUTE OF SCOTLAND, HAMILTON, N.B.

Officers.—*President*: Robert T. Moore. *Secretary*: James Barrowman, Staneacre, Hamilton.

Meetings.—Every two months throughout the year. The Anniversary Meeting takes place in April.

Membership.—No Entrance Fee; Annual Subscription, 42s. and 25s., according to grade.

Papers read during Session 1904–1905, and published in the "Transactions" of the Institution of Mining Engineers.

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| <i>Brown, E. O. F.</i> —The Application of Electric Power at Mines in Germany. Feb. 9. | <i>Roden, J.</i> —Coal Mining in Borneo. Dec. 8. |
| <i>Crawford, R.</i> —Winding of Minerals from Inclined Shafts. Dec. 8. | <i>Smith, W.</i> —Description of Houldsworth Colliery, Dalmellington. Aug. 6. |
| <i>Jackson, D.</i> —Natural Coke in Douglas Colliery. June 9. | <i>Weir, J. C.</i> —Fire in a Lanarkshire Colliery, and Description of a Condenser Used thereat. Oct. 8. |
| <i>Moore, R. T.</i> —An Outburst of Waste Water at Wallyford Colliery. Aug. 6. | |

THE WEST OF SCOTLAND IRON AND STEEL INSTITUTE,

207 BATH STREET, GLASGOW.

(FOUNDED 1892.)

Officers.—*President*: A. Lamberton. *Secretary*: James Love, 95 Bath Street.

Meetings.—Second or third Friday in each month, from October to April inclusive, at 7.30 P.M. The Anniversary Meeting takes place in April.

Membership.—Subscription, 21s.; no Entrance Fee.

Publication.—The *Journal*, monthly, during Winter Session. The papers are printed in the *Journal* for the month in which they are read.

List of Papers read during Session 1904–1905; those marked (P.) are published in the "Journal" for the month indicated.

Arnold, Prof. J. O.—The Relation of Theory to Practice in Steel Metallurgy (Lecture Reported in Abstract). Jan.

Gillespie, J.—Notes on the Evolution of Blast Furnace Recovery Plant. (P.) Dec.

Mitchell, P. J.—The Utilisation of Exhaust Steam by Means of Low-

Pressure Turbines on the Rateau System. (P.) Nov.

Morton, D. H.—The Economics of Production; with Special Reference to Iron and Steel Industries. (P.) Mar.

Westgarth, T.—Gas Driven Blowing Engines. (P.) Feb.

EDINBURGH ARCHITECTURAL ASSOCIATION,

117 GEORGE STREET. (FOUNDED 1850.)

Officers.—*President*: Harold O. Tarbolton. *Hon. Secretary*: C. B. Cownie, 31 Mayfield Gardens.

Meetings.—On Wednesdays, fortnightly, from November to May, at 8 P.M. The Anniversary Meeting usually takes place in May.

Membership.—Entrance Fee, none; Annual Subscription, Fellows, £1, 1s.; Members and Associates, 10s. 6d., and Apprentices, 5s.

Publication.—*Transactions*.

List of Papers read during Session 1904–1905.

Blanc, H. J., R.S.A.—The Arts of the Monastery. Mar. 8.

Brown, Prof. G. B.—Old Edinburgh. Jan. 25.

Brown, W. B., jun.—Notes on Spain. Mar. 15.

Buchan, M.—The Electric Lighting of a Country House. Jan. 18.

Cooper, Rev. Prof.—A Minister's Thoughts in Regard to the Arrangement and Furnishings of a Parish Church. Feb. 15.

Dawson, N.—A Talk on Metal Work. Dec. 14.

Eden, F. C.—Mystery as an Architectural Quality. Nov. 23.

Elcock, C. E.—Through York with a Camera. Feb. 22.

Hayes, G.—A Practical Demonstration of Architectural Modelling. Dec. 7.

M'Arthy, D.—The Royal Mile—the Castle to Holyrood. Mar. 29.

Tarbolton, H. O., F.R.I.B.A.—Education and Architecture. Nov. 9.

Traquair, R., A.R.I.B.A.—Notes on Window Tracery. Nov. 16.

Watson, W. C.—An Architect's Holiday in Portugal. Nov. 30.

Wilson, J.—Practical Notes on Beams for Architects. Mar. 22.

GLASGOW INSTITUTE OF ARCHITECTS,

115 ST VINCENT STREET AND 187 PITT STREET. (INCORPORATED 1868.)

Officers.—*President* : John Keppie, F.R.I.B.A. *Secretary* : C. J. MacLean,
115 St Vincent Street.

Meetings.—Quarterly, on Wednesdays, at 2 P.M. The Anniversary Meeting takes place in April.

Membership.—Entrance Fee, £10 ; Annual Subscription, £1, 1s.

Publication.—*Annual Report*. Free on application.

IRELAND.

INSTITUTION OF CIVIL ENGINEERS OF IRELAND,

35 DAWSON STREET, DUBLIN. (FOUNDED 1835 ; INCORPORATED 1877.)

Officers.—*President* : R. Cochrane, I.S.O., M.R.I.A., F.S.A. *Hon. Secretary* :
M. Backhouse, 35 Dawson Street, Dublin.

Meetings.—First Wednesday in each month, from November to May inclusive, at 8 P.M. The Anniversary Meeting takes place in December.

Membership.—Entrance Fee, £2, 2s. ; Annual Subscription : £2, 2s., £1, 11s. 6d., and £1, 1s., according to place of residence ; Life Composition : Home, £21 ; Foreign, £10, 10s.

Papers read during Session 1904–1905.

Dillon, J.—On the Use of Photography for Recording Continuous Soundings during Progress of River, Canal, Harbour, or Estuary Excavations. Mar. 1.

Hayes, J. G. L.—Some Notes on Bacterial Purification. May 4.

Latham, F.—Recent Works of Sea Defence at Penzance. Jan. 4.

Parry, W. K.—Further Advances in the Study and Treatment of Sewage. Apr. 5.

Rochford, J.—The Lorain Surface Contact System of Electric Traction. Nov. 2.

Stoney, B. B.—On the most Economical Span for Long Girder Bridges with Numerous Spans of Equal Length. Mar. 1.

Wise, B. D.—The Closing of the Breaches on the Myroe Embankment, Co. Londonderry. Feb. 1.

ENGINEERING AND SCIENTIFIC ASSOCIATION OF IRELAND,

PHYSICS THEATRE, ROYAL COLLEGE OF SCIENCE,
ST STEPHEN'S GREEN, DUBLIN.

Officers.—*President* : Sir Charles A. Cameron, C.B., M.A. *Hon. Secretary* :
John C. Purser, Treborth, Howth, County Dublin ; Ivor B. Coulton.

Meetings.—On Mondays at 7.45 P.M. The Annual Meeting is held in January.

List of Papers read during Session 1904–1905.

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| <p><i>Browne, C. R., M.B.</i>—The Evolution of the Modern Rifle.</p> <p><i>Cameron, Sir C. A., C.B.</i>—Presidential Address—Sanitary Science and Combustion of Fuel.</p> <p><i>Cochrane, R.</i>—Educational Work of the Association.</p> <p><i>Griffith, J. P., M.I.C.E.I.</i>—The Port of Dublin.</p> <p><i>Hargrave, J. H., B.E.</i>—The Mariner's Compass.</p> <p><i>Hill, E. H.</i>—The Theory and Practice of Ventilation.</p> | <p><i>Scott, T.</i>—The Forth Bridge.</p> <p><i>Shearderm, P. S., M.I.E.E.</i>—Impressions of a Recent Visit to America.</p> <p><i>Smalley, T. J.</i>—Manufacture of Boots by Machinery.</p> <p><i>Tomlinson, T.</i>—The Data Necessary to Forecast the Financial Future of an Existing Electric Light and Power Station: how Obtained from its Records and how Used.</p> |
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ROYAL INSTITUTE OF THE ARCHITECTS OF
IRELAND,

20 LINCOLN PLACE, DUBLIN.

Officers.—*President*: W. M. Mitchell, R.H.A., F.R.I.B.A. *Hon. Secretary*: R. Caulfield Orpen, B.A., 7 Leinster Street.

Meetings.—Council Meetings are held on the first Monday in each month, except July, August, and September. The Anniversary Meeting takes place in December.

Membership.—Entrance Fee, 21s.; Annual Subscription, £1, 1s.

Publication.—*Annual Report of Council.*

SECTION VIII.

NAVAL AND MILITARY SCIENCE.

LONDON.

ROYAL UNITED SERVICE INSTITUTION,
WHITEHALL, S.W.

Founded June 25, 1831, as the "Naval and Military Library and Museum," afterwards named "The United Service Museum," and in 1839 the "United Service Institution"; Incorporated by Royal Charter in 1860.)

Officers.—*President*: Field-Marshal H.R.H. the Duke of Connaught, K.G.
Chairman: Field-Marshal The Right Hon. Earl Roberts, K.G. *Secretary*:
Lieut.-Col. A. Leetham. *Assistant-Secretary*: B. E. Sargeaunt, F.R.G.S.
Librarian: Capt. H. Garbett. *Assistant-Librarian*: Major C. H. Wylly.

Meetings.—Generally on Wednesdays and Fridays at 3 P.M. between January and July. The Anniversary Meeting takes place in March.

Membership.—Entrance Fee, £1, 1s. ; Annual Subscription, £1, 1s.; Life Subscription, £15.

Publication.—*Journal*, published monthly, under the authority of the Council, 2s.

Contents of Volume XLVIII., January to December 1904.

Ames, Maj. W. H.—Military Education.

Anon.—Signalling.

—Translations: The Chinese Army, French Naval Programme, German Ideas, Russian Scheme of Instruction, Lessons of the Boer War.

Arnold, F. S.—War in South Africa.

Beevor, Surg.-Maj. W. C.—Recruiting.

Bellairs, Lieut. C., R.N. —Imperial Defence.

Beresford, Col. C. E. de la P.—Manchuria and Port Arthur.

—From Irkutsk to Harbin.

Burgoyne, A. H.—Submarine Boat.

Clarke, Sir G. S.—The Navy and the Nation.

Clarke, Maj. J. L. J.—Railways.

Collen, Maj.-Gen. Sir E.—India.

Cotter, Col. E. W.—Coast Defence.

Dilke, Sir C. W.—War Commission.

Director of Artillery.—Short Lee Enfield.

Donaldson, Capt. J. W. E.—Theatre of War.

Frey, Gen. H. N.—Chinese Army.

Gowan, Lieut.-Col. W. E.—India.

Gunter, Lieut.-Col. E.—Löbell Annual Reports.

Hay, Adm. Rt. Hon. Sir J. C. D.—Training Seamen.

Head, Maj. C. O.—Field Artillery.

Jerram, C. S.—Naval Reserve.

Lanessan, M. de.—French Naval Programme.

Lawrence, Rev. T. J.—Russo-Japanese War.

M'Nalty, Brev.-Maj. C. E. J.—Mechanically Propelled Vehicles.

Maguire, T. M.—Manchuria.

—The "New Pacific."

Maude, Lieut.-Col. F. N.—Military Education.

Molyneux, Capt. E. M. J.—Cavalry.

Quick, Fleet Engr. G.—Screw Propulsion.

Ram, Capt. Jonkheer J. H.—War in South Africa.
Rogers, Lieut.-Col. E.—Machine Guns.
Ruthven, Com. J. F.—Speed and Consumption of Steamships.
Sato, Lieut.-Com. K.—Education of Japanese Naval Officers.

Soboleff, Maj.-Gen. L. N.—India.
Stromeyer, C. E.—Reserve Officers.
Tulloch, Capt. R. M. G.—Kit and Equipment.
Watteville, Lieut. H. G. de—Motor Cycles.

ROYAL ENGINEERS' INSTITUTE,

BROMPTON BARRACKS, CHATHAM.

Officers.—*President of Committee:* (Vacant.)

Secretary: Major A. T. Moore, R.E., Royal Engineers Institute, Chatham.

Meetings.—Second Friday in each quarter. The Anniversary Meeting takes place in June.

Publications in 1904.—*R.E. Professional Papers*, Vol. XXX., 10s. 6d.; *The Royal Engineers' Journal*, published monthly, 1s.; *Notes on Steel Concrete* (2nd edition), by Major J. Winn, R.E., 2s. 6d.; *Marconi's Wireless Telegraphy*, by Rev. J. J. Culling, M.A., late R.E., assisted by Bt.-Major A. J. Craven, R.E., and Capt. A. B. R. Hildebrand, R.E.; *Notes for Officers Proceeding to India*, compiled by Major A. T. Moore, R.E., 2s. 6d.; *The Destruction of Mosquitoes*, by Major W. M. Hodder, R.E., 2s. 6d.; *Detailed History of the Railways in the South African War, 1899-1902*, 2 vols., £2, 2s.; *Maps:* Sketch Map of Japan, Korea, and N. E. China; Map of Southern Manchuria and Northern Korea; Plan of Port Arthur.

Lectures delivered during the Session 1904-1905.

Aston, Lt.-Col. G. G., C.B., R.M.A.—Imperial Defence. Dec. 19.

Ball, Sir R., F.R.S., M.A.—The Cause of an Ice Age. Nov. 17.

Carey, Capt. A. B.—Rifle Ranges. Jan. 19.

Elliott, Lt.-Col. G. S. M.D.—The Anglo-French Boundary Commission in Northern Nigeria. Nov. 24.

Ende, M., M.I.C.E.—Long Span Bridges. Dec. 15.

Evans, Lieut. L.—Wireless Telegraphy. Dec. 1.

Girouard, Lt.-Col. Sir E. P. C., K.C.M.G., D.S.O.—Railways in War. Mar. 28.

Haking, Lt.-Col. R., C.B.—The Ap-

plication of the Principles of Tactics. Mar. 2.

Hale, Col. L. A.—Modern War in relation to Home Defence. Feb. 23.

Hinks, A. R., M.A.—Recent Measurements of the Sun's Distance. Feb. 9.

Lees, Capt. E., R.N.—Submarine Boats. Feb. 2.

Mouchel, L. G.—Ferro-Concrete. Nov. 3.

Napier, Lieut. W. R., R.N.—Booms. Jan. 26.

Turner, Prof. H. H., F.R.S.—Recent Work on the Sun. Dec. 8.

Weisse, H. V.—Colour Photography. Feb. 16.

ROYAL ARTILLERY INSTITUTION,

ROYAL ARTILLERY BARRACKS, WOOLWICH. (FOUNDED 1838.)

Officers.—*President:* H.M. The King. *Secretary:* Major J. F. Cadell, R.A.
Assistant-Secretary: Captain D. Smith, R.A.

Meetings.—There are no fixed Meetings but those of the Committee, which are held at 12 noon, on the first Thursday after the 5th of each month.

Membership. — Entrance Fee, £1; Annual Subscription, according to rank.

Publications.—*The Royal Artillery Gazetteer*, price 1s. 3d. *Reports, Précis, and Translations*, containing papers on "Journal des Sciences Militaires," by Lieut. C. O. C. Hunt, R.F.A.; "Revue Militaire Suisse," by Capt. A. H. Webb, R.G.A.; "Mitteilungen über Gegenstände des Artillerie und Geniewesens," by Capt. H. H. Wade, R.F.A.; "Militär Wochenblatt," by Lieut. R. K. M'Gillycuddy, R.F.A.; "Revue Militaire des Armées Étrangères," by Capt. F. A. Buzzard, R.F.A., and Capt. L. S. Bayley, R.F.A.; "Lindsay's Rocket Troop for Portugal, A.D. 1810," from old MSS. lent by Col. W. F. L. Lindsay, D.S.O., R.F.A.; "Allgemeine Militär und Sport, Bibliographie," by Lieut. C. O. C. Hunt, R.F.A.; "The Employment of Artillery and the New Requirements of an Infantry Attack: a Plea for the Closer Connection between the Two Arms" (translated by Lieut. H. de Watteville, R.G.A.); "Method of Embarking or Entraining Horses" (translated by Col. A. H. C. Phillpotts, R.H.A.); "As to the Artillery Question," by Lieut.-Gen. H. Rohne (translated by Col. W. Fletcher, *psc.*, R.F.A.); "The Italian Artillery" (translated by Col. A. H. C. Phillpotts, R.A.); "Neue Militärische Blätter" (translated by Captain F. A. Buzzard, R.F.A.); "Side-lights on Artillery in the South African War" (translated by Lieut. K. B. Ferguson, R.G.A.); "Six- or Four-gun Batteries?" by Lieut. Marx of the German Artillery; "The Systematic Training of the Horse" (translated by Col. A. H. C. Phillpotts, R.A.); "Memorial de Artilleria," by Col. J. C. Dalton, R.A.; "Wheeled Transport in Mountainous Countries" (translated by Col. A. H. C. Phillpotts, R.A.); "International Equestrian Raid, Bordeaux—Paris" (translated by Col. A. H. C. Phillpotts, R.A.); "Notes from 'Duncan's History of the Royal Artillery,'" by Major A. R. Knox, D.S.O., R.F.A.; "Practice with the Recoil Field-Gun under Service Conditions" (translated by Lieut. C. O. C. Hunt, R.F.A.); "Extracts from 'Russki Invalid,'" by Col. W. B. Fletcher, *psc.*, R.F.A.; "Some Considerations on Coast Defence Organisation," by Col. J. C. Dalton, R.A.; "The Attack of Shield Batteries by Artillery" (translated by Col. W. B. Fletcher, *psc.*, R.F.A.); "The Training of Field Artillery for War," by Col. W. B. Fletcher, *psc.*, R.F.A.); "Bergmann Automatic Mitrailleur," Pattern 1902; "Re-armament of the Portuguese Artillery" (translated by Col. A. H. C. Phillpotts, R.A.); "Russian Field Artillery Goniometer" (translated by Capt. D. B. Stewart, R.F.A.); "Le Spectateur Militaire," by Lieut. J. W. Marsden, R.G.A.; "Internationale Revue," by Lieut. A. F. P. Wehner, R.G.A.; "The Battle of Wafango," by Col. W. B. Fletcher, *psc.*, R.F.A.; "A Fine Old Gunner," by T. M.; "Japanese Instructions for the Employment of Artillery in Action" (translated by Col. A. H. C. Phillpotts, R.A.); "Organ der Militärwissenschaftlichen Vereine," by Lieut. C. O. C. Hunt, R.F.A.; "Effects of the Japanese Rifle" (translated by Capt. D. B. Stewart, R.F.A.); "A Means of Maintaining to the Fullest Extent the Fighting Powers of Field Artillery in Battle" (translated by Capt. A. H. W. Haywood, R.A.); "The Manufacture of Arms and Powder in Japan" (translated by Col. A. H. C. Phillpotts, R.A.); "The Tactical Employment of Field Artillery: A Comparison between French and German Methods" (translated by Capt. F. A. Buzzard, R.F.A.); "Japanese Field and Mountain Artillery" (translated by Col. A. H. C. Phillpotts, R.A.); "Truppenführung und Heereskunde," 1st quarter, Vol. II.

Contents of "Proceedings," Vol. XXXI.

- Abdy, Bt.-Col. A. J., R.F.A.**—Communication between the Infantry and Artillery in Attack.
- Anstey, Lieut. E. C., R.F.A.**—Suggestions for the Training of Battery Scouts.
- Atkinson, Capt. B., R.F.A.**—The Future Training, Organisation, and Tactical Employment of Q.F. Field Artillery.
- Baker, Maj. A. S., R.A.**—Field Astronomy.
- Baldock, Col. T. S., C.B., psc., R.F.A.**—The Raising, Equipment, and Performances of the Royal Artillery Mounted Rifles in South Africa.
- Bethell, Maj. H. A., R.F.A.**—A Range Table for the 15-pr. Q.F. Gun.
- The Future Training, Organisation, and Tactical Employment of Q.F. Field Artillery.
- The Evolution of a Field Gun.
- Birch, Maj. D. P. L., R.G.A.**—Metal Patched Bullets for Sporting Rifles.
- Short Range or Gallery Ammunition for the '303 Service Rifle.
- Cast Bullets for Mid-range Work with the '303 Rifle.
- Buckle, Maj. A. S., R.F.A.**—No. 1 Ammunition Park, R.F.A., in the South African Campaign, 1899–1902.
- Cadell, Maj. J. F., R.A.**—Russian and Japanese Field Guns, etc., etc.
- A Reply to "Proposed Re-organisation of the Royal Horse Artillery by Brigades."
- On Writing an Appreciation of a Military Situation.
- The Battle Tactics of a Q.F. Field Artillery Brigade and the Brigade Staff.
- The Organisation of Field Artillery.
- Callhewell, Bt. Lieut.-Col. C. E., R.A.**—The Use of Heavy Guns in the Field in Europe.
- Close, Maj. C. F., C.M.G., R.E.**—A Method of Determining the Angles of Descent, etc.
- Crowe, Maj. J. H. V., R.A.**—An Epitome of the Russo-Turkish War. 1877–78.
- Gordon, Capt. N. F., R.F.A.**—The Future Training, Organisation, and Tactical Employment of Q.F. Field Artillery.
- Hardcastle, Capt. J. H., R.G.A.**—Rust, Wear, and Erosion in Gun-Barrels.
- Head, Maj. C. O., R.F.A.**—Artillery Practice Camps.
- Hezlet, Lieut. R. K., R.F.A.**—The Capabilities and Future Role of Field Howitzers.
- Hill, Maj. H. B., R.F.A.**—Signalling for Horse and Field Artillery.
- An Adjustable Fuze Scale.
- Hime, Lt.-Col. H. W. L., R.A.**—Our Earliest Cannon, 1814–1846.
- Hotham, Col. J., R.A.**—South Africa as a Breeding Ground for Remounts.
- Jocelyn, Col. J. R. J., R.A.**—Two Regimental Institutions.
- Johnson, Col. R. F., C.M.G., R.A.**—The Land Defence of Coast Defences.
- Jones, Capt. W. H., R.G.A.**—The Garrison Artillery Signaller.
- Lambart, Col. E. A., R.H.A.**—The Question of Competitive Practice in Horse and Field Artillery.
- Langton, Capt. A. V., R.G.A.**—The Patton Telegraph.
- Lyon, Maj. C., R.F.A.**—How to Obtain the Best Fire Effect from a Field Howitzer Battery.
- MacMunn, Bt.-Maj. G. F., D.S.O., R.F.A.**—Pack Artillery in 1819.
- Reconnaissance Panoramas.
- Maude, Lt.-Col. F. N., psc., R.E.**—The Evolution of Artillery and Infantry Tactics.
- Myers, Capt. A. E. C., R.G.A.**—Making Bricks without Straw or Defending Harbours without Guns.
- Page, Lt.-Col. W. L. H., R.H.A.**—Proposed Re-organisation of the R.H.A. by Brigades.
- Robinson, Capt. E. H., A.O.D.**—A Plea for the Disappearing Gun.
- Rowe, Col. O., R.G.A.**—The R.G.A. Chain of Command.
- Sandys, Maj. W. B., R.F.A.**—Proposed Re-organisation of the R.F.A. by Brigades.
- Sherbrooke, Lieut. N. H. C., R.H.A.**—Signalling as Applied to Field Artillery.
- Simonds, Maj. C. B., R.G.A.**—Proposed System of Fighting Charts in Lieu of "Square" System.
- Simpson, Col. H. C. C. D., C.M.G., R.A.**—Heavy Artillery, 1903.
- Sykes, Capt. C. A., R.H.A.**—Concealment.
- The Evolution of Artillery.
- Talbot, Capt. G. R., R.H.A.**—The Organisation for Quick Firing Artillery.
- A Plea for a Field Artillery Training School.
- Taylor, Maj. St J. L., D.S.O., R.F.A.**—The Re-construction of a Battery's Staff.

- Toms, Lt.-Col. F. B. R.*, R.G.A.—Service Prize Firing Organisation in a Royal Garrison Artillery Company.
- Vincent, Capt. B.*, R.A.—Notes on the Korean Army.
- The Japanese Field and Mountain Artillery.
- Wade, Capt. H. A. L. H.*, R.F.A.—The Tactical Rôle of the Field Howitzer.
- Waldron, Col. F.*, C.B., R.F.A.—An Account of a Visit to some of the Battle Fields of Natal.
- Waller, Lieut. H. de*, R.G.A.—Signalling and Telephony in Coast Defence.
- Wilson, Capt. C. H.*, R.F.A.—The Influence of Armies on Sea Power—The Second Punic War.
- The Influence of Armies on Sea Power—The Russo-Japanese War.
- The Campaign of Corunna.

INSTITUTION OF NAVAL ARCHITECTS,

5 ADELPHI TERRACE, STRAND, W.C. (FOUNDED 1860.)

Officers.—*President*: The Right Hon. Earl of Glasgow, G.C.M.G., LL.D.
Secretary: R. W. Dana, 5 Adelphi Terrace, W.C.

Meetings.—Week before Passion Week. The Summer Meetings are in June or July.

Membership.—The Entrance Fee for Members, Associate Members, and Associates is 42s.; and the Annual Subscription is 42s.; Students, 15s.

Papers read at the Meetings held in April 1905, published in "Transactions," and also obtainable on application in pamphlet form at various prices.

- Alexander, F. H.*—The Influence of the Proportions and Form of Ships upon their Longitudinal Bending Moments among Waves.
- Atwood, E. L.*—The Admiralty Course of Study for the Training of Naval Architects.
- Biles, Prof. J. H.*, LL.D.—The Strength of Ships, with Special Reference to Experiments and Calculations made upon H.M.S. *Wolf*.
- Bruhn, J.*, D.Sc.—Some Experiments on Structural Arrangements in Ships.
- Froude, R. E.*, F.R.S.—Model Experiments on Hollow *versus* Straight Lines in Still Water and Artificial Waves.
- Heck, J. H.*—Notes on the Variation of Angular Velocity in the Shafting of Marine Engines.
- Mallock, A.*—A Method of Preventing Vibration in certain Classes of Ships.
- Millet, J. B.*—Submarine Signalling by Means of Sound.
- Popper, S.*—Some Results of Model Experiments in Deep and in Shallow Water.
- Rowell, H.*—The Russian Volunteer Fleet.
- Seaton, A. E.*—Margins and Factors of Safety, and their Influence on Marine Designs.
- Smith, W. E.*, C.B.—The Design of the Antarctic Exploration Vessel *Discovery*.
- Soliani, Col. N.*—The Armoured Cruisers *Kasuga* and *Nisshin* of the Imperial Japanese Navy.
- Stromeyer, C. E.*—The Effect of Acceleration on Ship Resistance.

SECTION IX.

AGRICULTURE AND HORTICULTURE.

LONDON.

ROYAL AGRICULTURAL SOCIETY OF ENGLAND, 13 HANOVER SQUARE, W.

(FOUNDED 1838; INCORPORATED 1840.)

Officers.—*President Pro-tem.*: Sir John H. Thorold, Bart. *Secretary*: (Vacant.)

Meetings.—The arrangements for future meetings are undergoing reorganisation.

Membership.—Annual Subscription: for Governors, £5; for Members, £1. Life Composition: for Governors, £50; for Members, £15. Number of Members, about 9500.

The "Journal" of the Society for 1904, renumbered Vol. 65, price 12s. (Murray), contains the following:—

Annual Report for 1904 from the Principal of the Royal Veterinary College.
— for 1904 of the Consulting Chemist.
— for 1904 of the Consulting Botanist.
— for 1904 of the Zoologist.

Reports of the Council 1904.

Reports on the Field and Pot Culture Experiments at Woburn.

Final Report by the Consulting Botanist and the Consulting Chemist on the Grass Experiments conducted by the Society, 1895-1904.

The Assistant Editor.—The Society's Show of 1904.

Biffen, R. H., M.A. — Experiments with Wheat and Barley Hybrids illustrating Mendel's Laws of Heredity.

Bowen-Jones, J. — The Agricultural Education Exhibition, 1904.

Brodie, F. J. — The Weather during the Agricultural Year, 1903-1904.

Brown, E., F.L.S. — Turkey Farming.

Clarke, A. D., F.S.I. — Cottages for Rural Labourers.

Dugdale, J. B. — Miscellaneous Implements Exhibited at Park Royal, 1904.

Hall, A. D., M.A. — The Agricultural Experiments of the late Mr James Mason.

Udale, J. — Practical Hints on Vegetable Farming.

Wheatley, H. B., F.S.A. — Sir Humphry Davy, Bart., P.R.S.

Whitehead, C., F.L.S., F.G.S. — Practical Hints on Fruit Farming.

[Notes and Communications.]

Statistics affecting British Agricultural Interests.

The Weather during the Agricultural Year, 1903-1904.

Rainfall, Temperature, and Sunshine during 1903 and 1904.

The Rainfall of 1903 and 1904.

ROYAL HORTICULTURAL SOCIETY,
VINCENT SQUARE, WESTMINSTER.
 (FOUNDED 1804 ; INCORPORATED 1809.)

Officers.—*President*: Sir Trevor Lawrence, Bart. *Secretary*: Rev. W. Wilks, M.A.

Meetings.—On alternate Tuesdays, at 1 P.M. The Anniversary Meeting takes place in February.

Membership.—Annual Subscription for Fellows (according to privileges), 4 or 2 Guineas or 1 Guinea ; composition for each, 40, 25, or 15 Guineas.

Publication.—*Journal*, published quarterly, 7s. 6d. per part.

[No Return.]

THE BRITISH PTERIDOLOGICAL SOCIETY.

Officers.—*President*: W. H. Phillips. *Hon. Secretary*: George Whitwell, Serpentine Cottage, Kendal.

Objects.—To increase the knowledge of British Ferns, and gather information respecting New Varieties, either wild or cultivated, and record and propagate such information among Fern enthusiasts generally.

Meetings.—The Annual Meeting is held in August.

Membership.—Annual Subscription, 5s.

Publication.—*Annual Report*, containing a paper on the British Polypodies, by C. T. Druery, F.L.S., V.M.H., 1s.

COUNTRY.

**BATH AND WEST AND SOUTHERN COUNTIES
 SOCIETY,**

4 TERRACE WALK, BATH. (FOUNDED 1777.)

Officers.—*President*: Earl of Radnor. *Patron*: His Majesty the King. *Secretary and Editor*: Thomas F. Plowman, 3 Pierrepont Street, Bath.

Meetings.—Last Tuesday in the month. Annual General Meeting, May or June.

Membership.—Annual Subscription : for Governors, £2 ; for Ordinary Members, £1 ; Life Composition, £20 and £10 respectively.

Publication.—*Journal*, annually, 6s. 4d., post free.

Contents of Annual Journal (Fourth Series), Vol. XV., 1904–1905.

Acland, Sir C. T. D., Bart.—The Education of the Labourer.

Ashcroft, W.—Reports upon the Society's Experiments for the Improvement of Permanent Pastures at West Grinstead, Sussex, and Ottery St Mary, Devon.

— Interim Report of an Experiment for Ascertaining the Influence of

Various Manures upon the Production of Mutton.

Aze, Prof. J. W.—Abortion in Cows.
Carruthers, W., F.R.S.—Pasture Weeds, and their Treatment.

Eoe, H. T., F.S.I.—Simple Farm Accounts.

Farwell, F. G.—The Society's 1904 Exhibition of Cider.

- Foulkes, P. H.*, B.Sc., F.E.S.—The Growth of Mangels.
Lloyd, F. J., F.C.S., *B. T. P. Barker*, M.A., and *J. Ettle*, F.R.H.S.—Reports upon the National Fruit and Cider Institute.
Mathews, E.—Legislative Measures necessary to Combat the Spread of Abortion.
Matthews, A. T.—The Position and Prospects of Stock Farming.
Plowman, T. F.—The Policy of the Show-Yard and its Administrative Methods.
 —The Society's Dairy Schools.
 —The Society's Exhibition at Swansea.
- Rawlence, E. A.*—Reports upon the Society's Experiments for the Improvement of Permanent Pastures at Sampford Courtenay, N. Devon, and Sherborne, Dorset.
Rev. R. H.—Notes on British and French Agriculture.
Turnbull, R. E.—Waste in Farming, and how to avoid it.
Voelcker, Dr J. A., M.A., F.I.C.—Annual Report of the Society's Consulting Chemist.
 —and *E. Mathews*.—The Milk and Butter Test Classes at the Swansea Exhibition.

BIRMINGHAM BOTANICAL AND HORTICULTURAL SOCIETY,

BOTANICAL GARDENS, EDGBASTON, AND THE UNIVERSITY,
 BIRMINGHAM. (FOUNDED 1829.)

Officers.—*President*: Right Hon. Lord Calthorpe. *Hon. Secretary*: Prof. Hillhouse, M.Sc., M.A., F.L.S., The University. *Hon. Treasurer*: Neville Chamberlain, Esq., Highbury, Moor Green.

Meeting.—The Annual Meeting is held in July.

Membership.—Annual Subscription, 25s.

Publication, 1905.—*Report*, including Botanical and Horticultural Appendices and Meteorological Statistics from 1872 to 1904.

SCOTLAND.

ROYAL SCOTTISH ARBORICULTURAL SOCIETY,

5 ST ANDREW SQUARE, EDINBURGH. (FOUNDED 1854.)

Officers.—*President*: W. Steuart Fotheringham of Murthly. *Hon. Secretary*: R. C. Munro-Ferguson, M.P. *Secretary and Treasurer*: Robert Galloway, S.S.C.

Meetings.—Annual Meeting in January or February, and General Meeting and Excursion in July or August.

Membership.—No Entrance Fee; Subscriptions:—

| | £ | s. | d. | | £ | s. | d. |
|--|---|----|----|----------|-----|----|----|
| Large Landowners, Annual, | 1 | 1 | 0 | or Life, | 10 | 10 | 0 |
| Small „ Factors, Nurserymen, etc., „ | 0 | 10 | 6 | „ | 5 | 5 | 0 |
| Foresters, Gardeners, Land Stewards, etc., „ | 0 | 6 | 0 | „ | 3 | 3 | 0 |
| Assistant Foresters, etc., „ | 0 | 4 | 0 | „ | ... | | |

*List of Papers published in "Transactions," Vol. XVIII.,
Jubilee Volume, price 7s. 6d.*

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|--|--|
| <p><i>Assistant Editor.</i>—The Colorado Variety of the Douglas Fir (<i>Pseudotsuga Douglasii</i>, Carr.).</p> <p>—The Douglas Fir Plantation at Taymount.</p> <p><i>Honorary Editor.</i>—A Brief Survey of the History of Forestry in Britain during the last Fifty Years.</p> <p>—Notes on Continental Forestry, 1904.</p> <p><i>Bailey, Col., R.E., and Prof. Fisher.</i>—A Short Account of the State and other Forests of France Visited by the Royal Scottish Arboricultural</p> | <p>Society, July–August 1904, and of the Forêts de St Amand, et de Raisnes (Valenciennes).</p> <p><i>Macdonald, G. U.</i>—On Planting Waste Land for Profit.</p> <p><i>Meiklejohn, J. R.</i>—Notes on a Visit to some Bavarian and Saxon Forests with Dr Schlich and the Coopers Hill Students, 1904.</p> <p><i>Moon, F.</i>—An Account of a Chafer Infestation.</p> <p><i>Story, F.</i>—German Forestry. Notes and Queries.</p> |
|--|--|

HIGHLAND AND AGRICULTURAL SOCIETY OF SCOTLAND,

3 GEORGE IV. BRIDGE, EDINBURGH.

Officers.—*President*: Earl of Eglinton and Winton. *Secretary*: James Macdonald, F.R.S.E.

Meetings.—Ordinary Meetings, first Wednesday in each month from November to June. The Annual Meeting is held in January.

Membership.—No Entrance Fee; Annual Subscription: for Landowners, 23s. 6d.; for Tenant Farmers, 10s.; Life Composition, £12, 12s. and £5, 5s. respectively.

Publication.—*Transactions*, price 5s.

ADDENDUM ON AGRICULTURAL EXPERIMENTAL STATIONS.

ROTHAMSTED.

Mr (afterwards Sir) John Bennet Lawes was the founder of the Rothamsted Experimental Station. He commenced experiments with different manuring substances, first with plants in pots, and afterwards in the field, soon after entering into possession of his hereditary property at Rothamsted in 1834. The researches of De Saussure on vegetation were the chief subjects of his study to this end. Of all the experiments so made, those in which the neutral phosphate of lime, in bones, bone-ash, and apatite, was rendered soluble by means of sulphuric acid, and the mixture applied for root-crops, gave the most striking results. The results obtained on a small scale in 1837, 1838, and 1839 were such as to lead to more extensive trials in the field in 1840 and 1841, and subsequently.

In 1843, more systematic field experiments were commenced; and a barn, which had previously been partially applied to laboratory purposes, became almost exclusively devoted to agricultural investigations. The foundation of the Rothamsted Experimental Station may be said to date from that time (1843).

The Rothamsted station has from the commencement been entirely disconnected from any external organisation, and was at first wholly maintained at the cost of Sir John Lawes, who afterwards set apart a sum of £100,000, the Laboratory, and certain areas of land, for the continuance of the investigations

after his death. In February 1889, Trustees were appointed, and the necessary Trust Deed was executed; and, in accordance with the provisions of the Deed, a Committee of Management was soon afterwards appointed, and entered upon its duties. From June 1843 up to the date of Sir John Lawes' death, which occurred August 31, 1900, Dr (afterwards Sir) J. Henry Gilbert was associated with him in the conduct of the experiments. Sir Henry Gilbert died December 23, 1901.

The Trustees are :—

Lord AVEBURY, F.R.S.
Lord WALSINGHAM, F.R.S.
Sir JOHN EVANS, K.C.B., F.R.S.

The Committee consists of nine Members :—

| | |
|--|--|
| Sir JOHN EVANS, K.C.B., F.R.S. (Chairman) | } Nominated by the— Royal Society. |
| Dr HUGO MÜLLER, F.R.S. (Treasurer) | |
| Sir Michael FOSTER, Sec. R.S. | |
| HORACE T. BROWN, Esq., F.R.S. | } Chemical Society. |
| Prof. H. E. ARMSTRONG, F.R.S. | |
| WILLIAM CARRUTHERS, Esq., F.R.S. | } Linnean Society. |
| Sir JOHN H. THOROLD, Bart. (Vice-Chairman) | |
| Dr J. A. VOELCKER, F.I.C. | } Royal Agricultural Soc. of England. |
| | |

And Sir Chas. LAWES-WITTEWRONGE, Bart.

Those wishing to inspect the experiments should address themselves to the Director, A. D. Hall, Esq., M.A., Rothamsted Experimental Station, Harpenden.
Office of the Trust.—Royal Society, Burlington House, Piccadilly, W.
Secretary to the Committee.—Herbert Rix, Esq., B.A.

Publications.—The following papers have been published during the year :

"The Mechanical Analysis of Soils and the Composition of the Fractions resulting therefrom" (*Jour. Chem. Soc.*, Vol. LXXXV. (1904), 950). "The Effect of the Long-continued Use of Sodium Nitrate on the Constitution of the Soil" (*Jour. Chem. Soc.*, Vol. LXXXV. (1904), 964). "The Analysis of the Soil by Means of the Plant" (*Jour. Ag. Science*, Vol. I. (1905), 65). "Note on Calcium Cyanamide" (*Jour. Ag. Science*, Vol. I. (1905), 146). "The Effect of Plant Growth and of Manures upon the Soil: the Retention of Bases by the Soil" (*Proc. Roy. Soc.*, not yet published). "On the Accumulation of Fertility by Land allowed to run Wild" (*Jour. Ag. Science*, Vol. I. (1905), Part 2). "The Comparative Nitrifying Power of Soils, by S. F. Ashby" (*Jour. Chem. Soc.*, Vol. LXXXV. (1904) 1158).

THE WOBURN EXPERIMENTAL STATION.

The next Station of the kind established in England was started in the year 1877 by the Royal Agricultural Society at Woburn, Bedfordshire. The Field Experiments here carried on comprise :—The Effects of different manures on Wheat and Barley grown year after year upon the same land; the Permanence of different kinds of Rye-Grass and of Clover; Rotation Experiments; Green Manuring; and Gorse, Grass, Clover, and Pasture Experiments. Other Miscellaneous Experiments relate to the sowing of Wheat; Varieties of Barley and Oats; the disease of "Finger-and-Toe" in Turnips; the absorption of Arsenic by Plants; the eradication of Weeds; and the Potato disease. During previous years, Experiments in the Winter Feeding of Bullocks and Sheep have been carried out, Reports on the Experiments, when completed, are published from time to time in the Society's *Journal*. A "Pot Culture" Station was established in 1898 in connection with the Farm. The Experiments are conducted by the Society's Consulting Chemist (Dr J. Augustus Voelcker, M.A., B.Sc.) under the direct supervision of the Council. A Laboratory has also been erected, in which the chemical work connected with the Woburn Experiments is now conducted. A record of Meteorological Observations is kept, and the Farm has been constituted a Reporting Station under the Meteorological Office.

SECTION X.

LAW.

LONDON.

THE LAW SOCIETY,

(INSTITUTED 1827; INCORPORATED 1832; RE-INCORPORATED 1845),

103 TO 113 CHANCERY LANE, LONDON, W.C.

Officers.—*President*: Thomas Rawle. *Secretary*: Edward Walter Williamson.

Meetings.—On Fridays at 2 P.M., except during the Vacations. Provincial Meeting generally in October.

Membership.—Annual Subscription: for Town Members, Two Guineas; Country Members, One Guinea.

Publications.—*The Gazette and Register*, monthly.

List of Papers read during Session 1904–1905.

Cousins, T., J.P.—The Licensing Act, 1904.

Fullagar, W. P.—Is the Cry for Judicial Reform in any and what Respects Pressing and Substantial?

Gore, T. H.—The Licensing Act, 1904.

Gribble, H. E.—Some Observations on, and Suggestions in Regard to, the Land Transfer Act, 1897.

Kimber, H. D.—Compulsory Land Registration and the City of London.

Moss, W.—Small Bankruptcies.

Rhodes, C. T.—The Case against Taxation of Land Values.

Rubinstein, J. S.—How to Set a House in Disorder.

Tredgold, R. S.—County Courts.

THE CHARTERED INSTITUTE OF PATENT AGENTS,

STAPLE INN BUILDINGS, W.C.

(FOUNDED AUGUST 12, 1882; INCORPORATED BY ROYAL CHARTER, 1891.)

Officers.—*President*: J. C. Fell. *Secretary and Registrar*: H. Howgrave Graham.

Meetings.—On Wednesdays, at 8 P.M., from November to May. The Annual Meeting takes place in May.

Membership.—

| | Entrance Fees. | Annual Subscriptions. |
|-----------------------|----------------|-----------------------|
| Town Fellows, . . . | 3 Guineas | 3 Guineas. |
| Country „ . . . | 2 „ | 2 „ |
| Associates, . . . | 1 „ | 1 „ |
| Students, . . . | 1 „ | 1 „ |
| Foreign Members . . . | 2 „ | 1 „ |

Publications.—*Register for 1905*, 1s. *Examination Papers.* *Transactions.*
Supplements to Patent Laws of the World.

List of Papers read during Session 1904–1905.

Hardingman, G. G. M.—President's
Opening Address. Nov. 23.

Hearson, T. A.—The Incongruity of
Provisional Protection under Sec-
tion 1 of the Act of 1902. Dec. 21.

COUNTRY.

LIST OF PROVINCIAL LAW SOCIETIES.

| Name of Society. | President. | Secretary. | Secretary's Residence. |
|--|--------------------|-------------------------------------|---|
| Ashton-under-Lyne, Stalybridge, and District, | J. M. Whitworth. | W. A. Wilkinson. | Ashton-under-Lyne. |
| Bath, | W. C. M. Adam. | F. E. Shum. | 3 Union Street, Bath. |
| Berks, Bucks, and Oxfordshire (Incorporated), | R. S. Wood. | D. H. Witherington. | Reading. |
| Birmingham (Incorporated), . . | J. B. Carslake. | Ed. Everahed. | Birmingham. |
| Blackburn (Incorporated), | J. Higginson. | R. D. Wilding. | 8 Richmond Terrace, Blackburn. |
| Blackpool, Fleetwood, and Fylde District, | H. Cartmell. | J. E. Turner. | Blackpool. |
| Bolton-le-Moors (Incorporated), . . | J. Tyas Cooper. | James Watkins. | Bolton. |
| Bournemouth (Incorporated), . . . | Jas. Druitt, sen. | E. H. Bone. | Bournemouth. |
| Bradford (Incorporated), | W. H. Scott. | R. J. Sugden. | 24 Bank St., Bradford. |
| Bristol (Incorporated), | W. Roberts. | J. N. C. Pope; F. Sturge. | Bristol. |
| Burnley (Incorporated), | A. L. Garnett. | T. B. Nowell. | Burnley. |
| Bury (Incorporated), | C. H. Pickstone. | H. W. Chell. | Bury. |
| Buxton, | J. H. Orme. | A. J. H. Oram. | Buxton. |
| Cambridgeshire, | H. C. Squires. | Jno. Collin. | Cambridge. |
| Cardiff and District (Incorp.), . . | G. David. | Walter Scott. | Cardiff. |
| Carlisle, | J. Bendie. | I. H. Mawson. | Carlisle. |
| Chester and N. Wales (Incorp.), . . | C. P. Douglas. | Rd. Farmer. | Chester. |
| Chorley, | Jno. Stanton. | Jno. Miller. | Chorley. |
| Cornwall, | D. H. Shilson. | P. M. Coodo. | St Austell. |
| Derby, | W. H. Briggs. | W. H. Milns-Marsden. | Derby. |
| Devon and Exeter, | ... | T. W. Burch. | Exeter. |
| Dewsbury (Incorporated), | E. E. Deane. | G. E. B. Blakeley; R. W. Clough. | Dewsbury. |
| Dorset, | A. Pope. | A. G. Symonds. | Dorchester. |
| Durham (South) and N. Yorkshire | O. H. Cochrane. | J. M. Meek. | Middlesbrough. |
| Gloucestershire and Wiltshire (Incorporated), | C. Tudway. | J. W. Coren. | Gloucester. |
| Goole and District, | E. T. Clark. | R. Haldenby. | Goole. |
| Halifax (Incorporated), | Harold Marshall. | H. E. Smith. | Halifax. |
| Hampshire (Incorporated), | E. Goble. | A. W. Brain. | Southampton. |
| Herefordshire (Incorporated), . . . | E. N. Wallis. | J. R. Symonds. | Hereford. |
| Hertfordshire, | W. J. Gee. | C. E. Longmore. | Hertford. |
| Huddersfield, | W. Ramsden. | Edwin Sykes. | Royal Chrs., Hudders- field. |
| Hull (Incorporated), | C. E. Gresham. | T. W. Holdich. | Hull. |
| Isle of Wight, | R. B. Pittis. | E. Wilson. | Newport, I.W. |
| Kent, | C. A. Case. | F. R. Howlett. | Maldstone. |
| Lancaster, | G. Webster. | Lawrence Holden. | 2 Castle Hill, Lancaster. |
| Leeds (Incorporated), | J. R. Ford. | A. C. Peake. | Leeds. |
| Leicester, | J. S. Dickinson. | T. H. Wright. | Leicester. |
| Lincoln (Incorporated), | F. Andrew. | R. Epton. | Lincoln. |
| Liverpool (Incorporated), | A. J. Cleaver. | F. Dun. | Liverpool. |
| Luton, | W. Neve. | J. G. Roberts. | Luton. |
| Manchester (Incorporated), | W. H. Norton. | A. E. Paterson. | Manchester. |
| Merthyr Tydfil and Aberdare, . . . | G. C. James. | W. W. Meredith. | Merthyr Tydfil. |
| Monmouthshire (Incorporated), . . | W. C. A. Williams. | J. E. G. Lawrence. | Newport, Mon. |
| Newcastle-on-Tyne (Incorp.), . . . | Jno. Pybus. | R. Pybus. | 42 Mosley Street, New- castle-on-Tyne. |
| Northampton (Incorporated), . . . | T. M. Percival. | W. B. Shoosmith. | Northampton. |
| North Lonsdale, | S. E. Major. | H. G. Pearson; R. Bell. | Barrow-in-Furness. |
| Norwich and Norfolk (Incorp.), . . | F. O. Taylor. | Dr E. E. Blyth. | Norwich. |
| Nottingham (Incorporated), | J. A. H. Green. | Dr E. H. Fraser. | King Street, Notting- ham. |
| Oldham, | J. R. H. Jones. | F. Megson. | Oldham. |
| Plymouth (Incorporated), | T. H. Geake. | R. B. Johns; B. H. White- ford. | Plymouth. |
| Preston, | J. Craven. | J. J. Dallas. | Preston. |

| Name of Society. | President. | Secretary. | Secretary's Residence. |
|--|-------------------------------|--|--------------------------------|
| Rochester, Chatham, and Gillingham, | A. A. Arnold. | A. B. Challis. | Rochester. |
| St Helens and District, . . . | B. Brewis. | Jas. Cook. | St Helens. |
| Scarborough, | J. E. T. Graham. | S. P. Turnbull. | 33 St Thomas St., Scarborough. |
| Sheffield District (Incorporated), Shropshire, | H. Hughes. P. H. Minshall. | E. Bramley. T. H. Hignett; Rowland T. Hughes. | Sheffield. Shrewsbury. |
| Somersetshire, | E. T. Alms. | E. H. Watson. | Taunton. |
| Stockport, | Richd. Brown. | J. Grundey. | Stockport. |
| Sunderland (Incorporated), . . | A. T. Shepherd. | H. L. Cummings. | Sunderland. |
| Sussex, | A. C. Woolley. | J. W. Howlett; A. C. Borlase. | 4 New Road, Brighton. |
| Swansea and Neath (Incorp.), . . | H. W. Paton. | D. Selme; A. Ingram. | Swansea. |
| Wakefield (Incorporated), . . | H. Beaumont. | B. S. Briggs. | Wakefield. |
| Westmorland, | Jno. Bolton. | R. F. Chorley. | Kendal. |
| Whitehaven, | ... | H. J. Whiteside. | Whitehaven. |
| Wolverhampton (Incorporated), . | S. R. Taylor. | Christopher Byron. | Wolverhampton. |
| Worcestershire (Incorporated), . | W. T. Cutler. | W. B. Hulme. | Worcester. |
| Yorkshire, | T. Robson. | H. V. Scott. | York. |
| Yorkshire Union, | A. Middleton. | A. C. Peake. | Leeds. |

SECTION XI. LITERATURE AND HISTORY.

LONDON.

THE ALCUIN CLUB.

Officers.—*Chairman of Committee:* Athelstan Riley, M.A. *Secretary:* F. C. Eeles, 105 Adelaide Road, London, N.W.

Object.—The promotion of the study of the history and use of the Book of Common Prayer.

Meeting.—The Annual Meeting is held in May.

Membership.—Annual Subscription: Members, 20s.; Associates, 2s. 6d.

The Publications of this Club during 1905 were as follows:—*A First English Ordo: A Celebration of the Lord's Supper with one Minister.* 2s. *The Edwardian Inventories for Bedfordshire*, edited by F. C. Eeles, F.S.A.Scot., from Transcripts by the Rev. J. E. Brown, B.A., Vicar of Studham. 5s. *The People's Prayers: being some Considerations on the Use of the Litany in Public Worship*, by E. G. Cuthbert F. Atchley, L.R.C.P.Lond., M.R.C.S. 2s.

BALLAD SOCIETY. (FOUNDED 1868.)

Officers.—*Editor-in-Chief:* Rev. J. W. Ebsworth, M.A. *Hon. Secretary:* W. A. Dalziel, 67 Victoria Road, Finsbury Park, N.

Membership.—Annual Subscription, 21s.; no Entrance Fee.

Publication, 1905.—*Roxburghe Ballads*, Part XXVII., completion of second Division and Series, Prefatory Notes, Ballad Index to both Divisions.

THE BIBLIOGRAPHICAL SOCIETY,

20 HANOVER SQUARE, W. (FOUNDED 1892.)

Officers.—*President:* R. S. Faber. *Hon. Secretary:* A. W. Pollard, M.A., 10 Lauriston Road, Wimbledon Common, S.W.

Meetings.—Third Monday in each month, from October to March inclusive, at 5 P.M. The Anniversary Meeting is in December.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.; Life Composition, 12 Guineas.

Publications.—*Transactions*, Vol. VII. *The Earlier Cambridge Stationers and Bookbinders and the First Cambridge Printer*, by C. J. Gray (issued to Members only).

List of Papers read during Session 1904–1905.

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| <p><i>Butler, A. J.</i>—Alpine Books. Oct. 17. <i>Dodgson, C.</i>—Augsburg Books Illustrated by Hans Weiditz. Nov. 21. <i>Duff, E. G.</i>—The English Book Trade before the Incorporation of the Stationers' Company. Jan. 16.</p> | <p><i>Fortescue, G. K.</i>—The Pamphlet Literature of the English Civil War. Dec. 19. <i>Gibson, S.</i>—The Localisation of Books by their Bindings. Feb. 20. <i>Wheatley, H. B.</i>—Dr Johnson as a Bibliographer. Mar. 20.</p> |
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HENRY BRADSHAW SOCIETY.

(FOUNDED 1890.)

Officers.—*President:* The Bishop of Salisbury. *Chairman of Council:* Dr J. W. Legg, F.S.A. *Hon. Secretary:* Rev. H. A. Wilson, Magdalen College, Oxford.

Meeting.—The Annual General Meeting takes place in November.

Membership.—No Entrance Fee; Annual Subscription, 21s. Life Composition, £12, 12s.

Publications in 1904–5.—*Tracts on the Mass*, edited by Dr J. Wickham Legg; *Customary of the Benedictine Monasteries of St Augustine, Canterbury, and S. Peter, Westminster*, edited by Sir E. Maunde Thompson, K.C.B., etc., Vol. II.; *Report and List of Members*.

THE BRITISH RECORD SOCIETY (LIMITED),

124 CHANCERY LANE, E.C.

(FOUNDED 1888; INCORPORATED 1893.)

(With which is incorporated the Index Society, founded 1878.)

Officers.—*President:* Rt. Hon. Lord Hawkesbury. *Hon. Secretary:* E. A. Fry, 172 Edmund Street, Birmingham.

Meeting.—The Annual Meeting takes place in May.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publications.—This Society publishes *The Index Library* (quarterly to subscribers only), in which appeared during 1904:—

“Calendars of Wills in the Probate Courts of Worcester,” 1452–1600;
 “Gloucester,” 1660 onwards; “Exeter,” 1584 onwards; and “Lincoln,” 1601 onwards.

“Calendars of Marriage Licenses in the Faculty Office,” 1660–1714;
 “Chancery Suits, ‘Reynardson,’” Vol. II., 1649–1714.

“Abstracts of Inquisitions *post-mortem* for London, *temp.* Elizabeth and Edward VI.; Wiltshire, *temp.* Edward I.; Gloucestershire, *temp.* Henry III. to Edward I.”

CARLYLE SOCIETY,

ANDERTON'S HOTEL, FLEET STREET, E.C. (FOUNDED 1879.)

Officers.—*President*: Dr Eugene Oswald, M.A. *Hon. Secretary*: H. W. Macrosty, B.A., 81 St John's Park, Blackheath, S.E.

Meetings.—First Wednesday in each month, from October to June, at 8 P.M. (excepting January), inclusive. The Anniversary Meeting is in December.

Membership.—No Entrance Fee; minimum Annual Subscription, 10s. 6d.

[No Return.*]

**CENTRAL ASSOCIATION OF UNIVERSITY
EXTENSION STUDENTS,**

IMPERIAL INSTITUTE, SOUTH KENSINGTON.

(INSTITUTED 1903.)

Officers.—*Chairman*: Mark H. Judge. *Hon. Secretary*: Max Judge, 7 Pall Mall, S.W.

Membership.—Subscription, 5s. per annum.

Objects.—To assist in making the Central Courses of Lectures as widely known as possible, and generally to promote University Extension Work.

[No Return.]

CHAUCEER SOCIETY. (FOUNDED 1868.)

Officers.—*Editor-in-Chief*: Dr F. J. Furnivall. *Hon. Secretary*: W. A. Dalziel, 67 Victoria Road, Finsbury Park, N.

Membership.—Annual Subscription, 42s., due in advance; no Entrance Fee.

Publications.—*Among the Texts and Chaucer Essays, etc., preparing for the Society are*: "The Troilus MS. Harl." 2392—the only one with Latin side-notes and glosses—edited by Dr W. H. M'Cormick; "Five Hundred Years of Chaucer Criticism and Allusion," 1387–1900, compiled by Miss C. Spurgeon and Miss Evelyn Fox; "Entries Concerning Thomas Chaucer," compiled by R. E. G. Kirk, Esq.; "A Detailed Comparison of Chaucer's 'Knight's Tale' with the 'Teseide' of Boccaccio," by Henry Ward, M.A., late of the British Museum; "Melibé et Prudence, the French Original of Chaucer's 'Tale of Melibe,'" edited from the MSS. by Dr Mary Noyes Colvin. Prof. E. Flügel, Ph.D., is editing *The Chaucer Concordance* for the Society.

**CYMMRODORION, HONOURABLE SOCIETY OF,
NEW STONE BUILDINGS, 64 CHANCERY LANE, W.C.**

Officers.—*President*: Rt. Hon. Lord Tredegar. *Secretary*: E. Vincent Evans, Cymmrodorion Library, 64 Chancery Lane, W.C.

Meetings.—Monthly, on Wednesdays, from November to June, at 8 P.M. The Anniversary Meeting takes place in November.

Membership.—Annual Subscription, 21s.

[No Return.]

THE DANTE SOCIETY,

38 CONDUIT STREET, W. (FOUNDED 1881.)

Officers.—*President*: Sir T. Martin, K.C.B., K.C.V.O., LL.D. *Hon. Secretary*: Luigi Ricci, B.A.

Meetings.—The Annual Meeting is held on the first Wednesday in June. Ordinary Meetings are held every Friday, at 3 P.M.

Membership.—Entrance Fee, 42s.; Annual Subscription, 21s.; Life, 10 Guineas.

Publications during 1905.—*The Dante Society's Report; In the Footsteps of Dante*; and *The Sala Dante at Ravenna* (all free to Members); *Dante and Virgil*, by H. M. Beatty, 3s. 6d.

List of Lectures during Session 1904–1905.

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| <i>Cart, Rev. H. T., M.A.</i> —Dante and the Papacy. Nov. | <i>Saintsbury, Prof. G., M.A.</i> —Dante and the Grand Style. Mar. |
| <i>Craigie, Mrs.</i> —Plato and Dante. June. | <i>Strong, C.</i> —Dante's Life and Work. Feb. |
| <i>Mant, Rev. N., M.A. F.S.A.</i> —Italian Architecture in Italian Cities. Apr. | <i>Wilberforce, E., M.A.</i> —The Bitter Waters of Purgatorio. Jan. |
| <i>Ricci, L.</i> —The Countess Matilde of Tuscany. Feb. | <i>Wright, Rev. P., B.A.</i> —La Lupa Dantesca. Mar. |

EARLY ENGLISH TEXT SOCIETY.

(FOUNDED 1864.)

Officers.—*Director*: Dr F. J. Furnivall, M.A. *Hon. Secretary*: W. A. Dalziel, 67 Victoria Road, Finsbury Park, N.

Membership.—£1, 1s. a year for the Original Series, and £1, 1s. for the Extra Series, due in advance. No Entrance Fee.

Books issued in 1904.

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| <i>Furnival, Dr, and A. W. Pollard, M.A.</i> —The Macro Plays. 10s. | <i>Locock, Miss.</i> —Lydgate's De Guileville's Pilgrimage of the Life of Man. Part III. 10s. |
| <i>Kock, Dr E. A.</i> —Lovelich's Romance of Merlin. Part I. 10s. | |

FOLK-LORE SOCIETY,

22 ALBEMARLE STREET, PICCADILLY, W. (FOUNDED 1879.)

Officers.—*President*: W. H. D. Rouse, Litt.D. *Hon. Secretary*: F. A. Milne, M.A., 11 Old Square, Lincoln's Inn, W.C.

Meetings.—Third Wednesday in November to June inclusive, at 22 Albemarle Street, W. The Anniversary Meeting takes place in January.

Membership.—No Entrance Fee; Annual Subscription, 21s.; Life Composition, £10, 10s.

Publications during 1904.—*Folk-Lore*, Vol. XV. (for 1904), £1; *County Folk-Lore*, Part 4 (Northumberland), compiled by Mrs M. C. Balfour, edited by Northcote W. Thomas, 10s. 6d.

THE GENEALOGICAL AND BIOGRAPHICAL SOCIETY,

38 CONDUIT STREET, LONDON, W.

Officers.—*President*: The Marquess of Winchester. *Secretary*: Luigi Ricci.

Meetings.—Last Wednesday of the Month, January to June (Annual Meeting).

Membership.—Entrance Fee, Ten Guineas; Annual Subscription, Five Guineas; Life Membership, Sixty Guineas.

THE ENGLISH GOETHE SOCIETY,

THE HALL OF THE MEDICAL SOCIETY OF LONDON, CHANDOS
STREET, PORTMAN SQUARE, W.

(FOUNDED 1886.)

Officers.—*President*: Prof. E. Dowden, Litt.D., D.C.L., LL.D. *Secretary*: Dr Eugene Oswald, M.A., 49 Blomfield Road, Maida Hill, W.

Meetings.—In November, January, February, and July. The Anniversary Meeting for 1904 took place in November.

Membership.—Annual Subscription, One Guinea, or Half a Guinea, according to Class.

[No Return.]

HARLEIAN SOCIETY,

140 WARDOUR STREET, W. (FOUNDED 1869; INCORPORATED 1902.)

Officers.—*Chairman of Council*: Sir George J. Armytage, Bart., F.S.A. *Secretary and Treasurer*: W. Bruce Bannerman, F.S.A., The Lindens, Croydon, Surrey.

Meetings.—The Annual Meeting takes place in January, February, or March; other Meetings as required.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 21s.; and 21s. extra for Register Section.

Publications issued in 1904.—Ordinary Section: *Lincolnshire Pedigrees*, Vol. III., edited by the Rev. Canon A. R. Maddison, M.A., F.S.A., 21s. Register Section: *The Registers of St Helen's, Bishopsgate Street, London*, edited by W. Bruce Bannerman, Esq., F.S.A., 25s.

ROYAL HISTORICAL SOCIETY,

3 OLD SERJEANTS' INN, W.C. (FOUNDED 1868.)

Officers.—*President*: Rev. W. Hunt, Litt.D. *Hon. Secretary*: H. E. Malden, M.A.

Meetings.—Third Thursday in each month, from November to June inclusive. The Anniversary Meeting takes place in February.

Membership.—No Entrance Fee; Annual Subscription, 42s.; Life Composition, 20 Guineas.

Publications during 1904.—*Transactions*, N.S., Vol. XVIII.; *The Presbyterian Movement in the Reign of Elizabeth* (Third Series), Vol. VIII.; *Records of the Eastland Company at York* (Third Series), Vol. IX.

List of Papers read during Session 1904–1905.

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| <p><i>Baldwin, J. F.</i>—The Beginnings of the King's Council in England. Nov. 17.</p> <p><i>Brodie, R. H.</i>—The Case of Dr Groom (1541). Dec. 15.</p> <p><i>Figgis, Rev. J. N.</i>—Bartolus and the Development of European Political Ideas. May 18.</p> <p><i>Flower, C. T.</i>—The Beverley Town Riots. Dec. 15.</p> <p><i>Leadam, I. S.</i>—Polydore Vergil in the English Law Courts. Mar. 16.</p> <p><i>Leonard, Miss E. M.</i>—The Develop-</p> | <p>ment of the Enclosure Movement in England. Jan. 19.</p> <p><i>Malden, H. E.</i>—Bondmen in Surrey. Jan. 19.</p> <p><i>Marsden, R. G.</i>—Some Elizabethan Fighting Instructions and Reports.</p> <p><i>Mason, W. A. P.</i>—The Beginnings of the Cistercian Order. June 15.</p> <p><i>Prothero, G. W.</i>—Presidential Address. Feb. 16.</p> <p><i>Routh, Miss E. M. G.</i>—The English Occupation of Tangier (1661–1683). Apr. 13.</p> |
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HUGUENOT SOCIETY OF LONDON,

HOTEL WINDSOR, VICTORIA STREET, S.W.

(FOUNDED APRIL 15, 1885.)

Officers.—*President*: William Minet, F.S.A. *Hon. Secretary*: R. S. Faber, F.S.A., 90 Regent's Park Road, N.W.

Meetings.—Second Wednesday in January, March, and November, at 8 P.M. The Annual Meeting takes place in May.

Membership.—Entrance Fee, 1 Guinea; Annual Subscription, 1 Guinea; Life Membership, 10 Guineas.

Papers read during Session 1904–1905.

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| <p><i>Dalton, C.</i>—The Huguenot-Huguetans. Jan. 11.</p> <p><i>Le Fanu, T. P.</i>—The French Churches of Dublin, and their Ministers. Mar. 8.</p> | <p><i>Maguire, Dr T. M.</i>—The British Soldier in Continental Wars of Religion. Nov. 9.</p> |
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THE IRISH LITERARY SOCIETY, LONDON,

20 HANOVER SQUARE.

Officers.—*Chairman*: R. Barry O'Brien. *Hon. Secretary*: Stephen Gwynn. *Acting Hon. Secretary*: W. Boyle.

Meetings.—Once a month on Saturday, at 8 P.M., October to May. The Annual General Meeting is in March.

Membership.—No Entrance Fee; Annual Subscription: for Country Members and Original Members, 12s. 6d.; for Ordinary Members and Associates, 21s.; Life Members, £10, 10s.

List of Papers read during Session 1904–1905.

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| <p><i>Ball, Sir R.</i>—From Tory Island to the Fastnet.</p> <p><i>Boland, J. P.</i>—The Irish House of Commons in the Seventeenth Century.</p> | <p><i>Boyle, W.</i>—From the Coming of Bruce to the Parliament of 1541.</p> <p>—Shane O'Neill.</p> <p>—The Poetry of Young Ireland.</p> <p><i>Connell, N.</i>—Some Irish Dramatists.</p> |
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| <p><i>Cox, Rev. S. A., M.A.</i>—Plantation of Ulster.</p> <p><i>Donelan, Dr J., M.D.</i>—Rinuccini.</p> <p>— The Confederation of Kilkenny.</p> <p><i>Gibson, Hon. W.</i>—Pan-Celticism.</p> <p><i>Graves, A. P.</i>—William Allingham.</p> <p><i>Gwynn, Mrs.</i>—The Norman Settlement.</p> <p><i>Gwynn, S.</i>—The Poetry of Thomas Moore.</p> | <p><i>Hegarty, P. S.</i>—Desmond.</p> <p><i>Houston, A., LL.D.</i>—The Rebellion of 1641.</p> <p><i>Milligan, Miss A.</i>—Irish Speaking Ireland: its People and Scenery.</p> <p><i>Moloney, Rev. M.</i>—Tyrone.</p> <p><i>Russell, T. W.</i>—The Scot in Ulster.</p> <p><i>Wilson, P.</i>—Strafford.</p> <p>— The Reformation.</p> |
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IRISH TEXTS SOCIETY,

20 HANOVER SQUARE, W. (FOUNDED 1898.)

Officers.—*President*: Douglas Hyde, LL.D., M.R.I.A. *Hon. Gen. Secretary*: Eleanor Hull.

Meeting.—Annual General Meeting in April each year.

Membership.—Annual Subscription, 7s. 6d. (American Members, 2 Dollars).

Publications.—The Society's *Irish English Dictionary*, edited by Rev. P. S. Dinneen, M.A., issued in 1904, price to Members 6s. 6d., and to the Public, 7s. 6d.; *The Martial Career of Coughal Clairinghneach*, edited from a manuscript in the Royal Irish Academy by Patrick MacSweeney, M.A., with translation and notes, being Vol. V. of the Society's publications, price to the Public, 10s. 6d.

THE JAPAN SOCIETY,

20 HANOVER SQUARE, LONDON, W. (INSTITUTED 1892.)

Officers.—*President*: His Excellency The Viscount Hayashi, LL.D., D.C.L. *Hon. Secretaries*: G. Ukita; W. Crewdson, M.A., F.S.A. *Assistant Secretary*: A. E. Brice.

Meetings.—Ordinary Meetings on the second Wednesday in each month, from October to June, at 8.30 P.M. The Annual General Meeting takes place in June.

Membership.—Annual Subscription: Ordinary Members, 21s.; Corresponding Members, 10s. 6d.; Life Composition, £10, 10s.

Publications during 1904-1905.—*Transactions*, Vol. VI., Part 3, 4s.

List of Papers read during Session 1904-1905.

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| <p><i>Cornish, V., D.Sc., F.R.G.S., F.C.S., F.G.S.</i>—Notes on Japanese Temples and Monasteries. Dec. 14.</p> <p><i>Edwards, E. R.</i>—The Phonetics of Modern Japanese. Nov. 9.</p> <p><i>Edwards, H. J., M.A.</i>—Japanese Undergraduates at Cambridge University. Jan. 11.</p> <p><i>Fox, S. M., B.A.</i>—Some Lessons from Japan. Feb. 8.</p> | <p><i>Huish, M. B., LL.B.</i>—The Relative Appreciation of Japanese Art in Countries other than Japan. Apr. 12.</p> <p><i>Longford, Prof. J. H.</i>—England's Record in Japan. Mar. 8.</p> <p><i>Takahashi, K.</i>—Some Remarks on Colloquial Japanese compared with other Languages. May 10.</p> |
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THE LIBRARY ASSOCIATION,
WHITCOMB HOUSE, WHITCOMB STREET, PALL MALL,
EAST, S.W.

Officers.—*President*: Thomas Hodgkin, B.A., D.C.L. *Hon. Secretary*: L. Inkster. *Assistant Secretary*: Mrs Kate Reilly.

Meetings.—Third Thursday in each month, from January to June inclusive, or as announced in *The Library Association Record*. The Annual Conference usually takes place in September.

Membership.—Annual Subscription, £1, 1s.; Life Composition, £15, 15s.

Publications.—*Library Association Year Book*, 1s.; *Library Association Record*, monthly, 1s.

List of Papers read during the Session 1904–1905.

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| <i>Aldred, T.</i> —The Cutter Classification. Mar. 20. | <i>Maw, T. E.</i> —State Aid to Public Libraries. Jan. 16. |
| <i>Baker, E. A., M.A.</i> —Book Annotation. Apr. 17. | <i>Newcombe, C. F.</i> —Some Aspects of the Work of Henry Bradshaw. Feb. 20. |
| <i>Davenport, C.</i> —English Books at the St Louis Exhibition, 1904. Nov. 21. | <i>Powell, W.</i> —Indexes Wanted. Jan. 16. |
| <i>Dent, R. K.</i> —The Golden Age of Book Illustration. Feb. 20. | <i>Savage, E. A.</i> —Some Unsolved Problems in Municipal Library Work. June 19. |
| <i>Jast, L. S.</i> —Some Impressions of a Visit to America. Dec. 19. | <i>Smith, G.</i> —Old Newspapers. May 15. |

ROYAL SOCIETY OF LITERATURE, LONDON,

20 HANOVER SQUARE, W.

Officers.—*President*: The Rt. Hon. the Earl of Halsbury. *Secretary*: P. W. Ames, LL.D., F.S.A.

Meetings.—Fourth Wednesday in each month, November to June inclusive, at 8.30 P.M. The Anniversary Meeting takes place in April.

Membership.—Entrance Fee, 63s.; Annual Subscription, 42s.; Life Composition, 30 Guineas.

Publication during 1904–1905.—*Transactions*.

*List of Papers read during Session 1904–1905, those marked * being published in the "Transactions."*

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| <i>Axon, W. E. A., LL.D.</i> —Romeo and Juliet before Shakspeare. Mar.* | <i>Gerthwohl, M. A., B.Litt.</i> —The Psychological Treatment of Nero in Literature. Nov.* |
| <i>Corbett, Rev. F. St J., M.A.</i> —Some Contributors to Tottel's Miscellany. Apr.* | —Don Juan in Literature. May. |
| <i>Davey, S., F.R.S.L.</i> —The Letters and Autobiographical Writings of Oliver Goldsmith. Feb.* | <i>Newman, P. H.</i> —El ingenio hidalgo Don Quixote de la Mancha: the Book and its Author. June. |
| <i>Francke, A., F.R.L.S.</i> —Schiller. May. | <i>Rogers, A., M.R.A.S.</i> —The Shah Nameh. Jan.* |

NAVY RECORDS SOCIETY.

Officers.—*President*: Earl Spencer, K.G. *Secretary*: Prof. J. K. Laughton, King's College, London, W.C.

Meeting.—The Anniversary Meeting is held in June.

Membership.—Annual Subscription, One Guinea.

Publications during 1904 (issued to Members only).—Vol. XXVII., *A Descriptive Catalogue of the Naval Manuscripts in the Pepysian Library* (Vol. II.), edited by Mr J. R. Tanner. Vol. XXVIII., *The Correspondence of Admiral John Markham*, 1801–07, edited by Sir C. R. Markham, K.C.B., F.R.S. During 1905: *Fighting Instructions*, 1530–1816, edited by Mr J. S. Corbett.

PALI TEXT SOCIETY,

22 ALBEMARLE STREET, W. (FOUNDED 1882.)

Officer.—*Managing Chairman and Hon. Secretary*: Prof. T. W. Rhys Davids, Ph.D., LL.D.

Membership.—Annual Subscription, One Guinea.

Publications.—The Pali Text Society issues every year one or two volumes of the Sacred Books of the primitive Buddhists in the original Pali. A full list of the works can be had from the Secretary. The Society's Publications for 1904 were *Samyutta*, Vol. VI., and *Vibhanga*, Vol. I.

PHILOLOGICAL SOCIETY,

UNIVERSITY COLLEGE, GOWER STREET, W.C. (FOUNDED 1842.)

Officers.—*President*: Rev. Prof. Skeat. *Hon. Secretary*: F. J. Furnivall, Ph.D., 3 St George's Square, Primrose Hill, N.W.

Meetings.—Usually on the first Friday in each month, from November to June inclusive. The Anniversary Meeting takes place in May.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.

Publications.—Members receive copies of the *Transactions* free of charge. They may moreover obtain, through the Treasurer, at a *very reduced* price, any of the Society's former publications and the *New English Dictionary*. These are on sale to the public (non-Members), through the Society's publishers, Kegan Paul, Trench, Trübner & Co., Limited, Dryden House, Gerrard Street, Soho, in the usual way.

List of Papers read during the Sixty-first Session, 1904–1905.

Bradley, H., M.A.—On the *M* Words I am Editing for the Society's Oxford Dictionary. Apr. 7.

Cragie, W. A., M.A.—On the *R* Words I am Editing for the Society's Oxford Dictionary. Nov. 4.

Gollancz, Prof., M.A.—On the Reality of the Child in the Early Form of *The Pearl*. Mar. 3.

Hessels, J. H., M.A.—Notes on some Mediæval Latin and Anglo-Saxon Glosses. Jan. 13.

Napier, Prof. A. S., Ph.D., D.Litt.—Notes on Old-English Words. June 2.

Oelsner, H., M.A., Ph.D.—On Early French Phrase-Books for Englishmen. Feb. 3.

Skeat, Rev. Prof., Litt.D.—Seventy Ghost Words. Dec. 2.

—Notes on English Etymology. May 5.

Strachan, Prof. J., M.A.—Notes on Middle-Irish Declension. Mar. 3.

SELDEN SOCIETY.

(FOUNDED 1887.)

Officers.—*President*: The Rt. Hon. Lord Alverstone. *Hon. Secretary*: B. Fossett Lock, 11 New Square, Lincoln's Inn, W.C.

Meetings.—Ordinary are held when required. The Anniversary Meeting takes place in March.

Membership.—No Entrance Fee; Annual Subscription, 21s.; Life Composition, £20.

Publications for 1904.—*Select Municipal Customs*, Vol. I., edited by Miss Mary Bateson, 28s. (Quaritch). *Year Books Series*, Vol. II., containing "Year Books" of 2 and 3, Edward II., 1308–10, edited by Prof. Maitland, 28s. (Quaritch.)

THE VIKING CLUB, OR SOCIETY FOR NORTHERN RESEARCH,

(FOUNDED IN 1892, AS THE ORKNEY, SHETLAND, AND NORTHERN SOCIETY),
KING'S WEIGH HOUSE ROOMS, THOMAS STREET, W.

Officers.—*President*: W. G. Collingwood, M.A., F.S.A. *Hon. Secretary*: Miss Leslie, 103 Park Street, Grosvenor Square, W.

Meetings.—Anniversary, St Magnus' Day, about 16th April. Ordinary Meetings on Fridays, once a month, from November to April, 8.15 p.m.

Membership.—Entrance Fee, 11s.; Annual Subscription, 10s.; Life Composition, £10.

Publications, 1904–1905.—*Saga Book of the Viking Club*, containing Reports, Proceedings, and a Selection of Papers, Vol. IV., Part 1.

List of Papers read during Session 1904–1905.

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| <i>Collingwood, W. G.</i> , M.A.—Notes on the British Saga of King William. Dec. 16. | <i>Magnússon, E.</i> , M.A.—Shipbuilding and Nautical Terms of Old in the North. Nov. 18. |
| <i>Duff, Prof. J. W.</i> , M.A.—Homer and Beowulf. Feb. 17. | <i>Major, A. F.</i> —The Ship Find at Slagen, South Norway. Mar. 17. |
| <i>Garson, J. G.</i> , M.D.—Presidential Address—Descriptive Account of Orkney, Illustrated. Jan. 20. | <i>Rücker, Miss S. C.</i> —Some Notes on the Supernatural Elements in Icelandic Literature. May 12. |
| <i>Kjær, H. A.</i> , M.A.—A Visit to the Dane Work. Mar. 17. | <i>Stefánsson, J.</i> , Ph.D.—The Oldest Known List of Scandinavian Names. Apr. 14. |
| <i>Leith, Mrs D.</i> —Old Icelandic Churches. Mar. 17. | |

WYCLIF SOCIETY.

(FOUNDED 1882.)

Officers.—*President*: Archbishop of Canterbury. *Secretary*: John W. Standerwick, General Post Office, E.C.

Membership.—No Entrance Fee; Annual Subscription, 21s.

THE SOCIETY OF ARCHIVISTS AND AUTOGRAPH COLLECTORS,

THORNTON LODGE, THORNTON HEATH, SURREY.

(FOUNDED 1892.)

Officers.—*President*: (Vacant). *Hon. Secretary and Editor*: H. Saxe Wyndham, Thornton Lodge.

Meetings.—None are held, as the Society exists for publishing and corresponding only.

Membership.—Annual Subscription, £1, 1s.; no Entrance Fee.

[*No Return.*]

COUNTRY.

THE BRONTË SOCIETY,

THE BRONTË SOCIETY MUSEUM, HAWORTH, NEAR KEIGHLEY.

(FOUNDED 1893 ; INCORPORATED 1902.)

Officers.—*President*: Right Hon. the Earl of Crewe. *Hon. Corresponding Secretary*: W. T. Field, Southgate, Bradford.

Meetings.—The Anniversary Meeting is held in January, in addition to which the reopening of the Museum each Spring is frequently signalised by a Public Meeting at Haworth. Ordinary Meetings as may be arranged.

Membership.—The Annual Subscription is 2s. 6d.; Life Membership Fee, Two Guineas.

Publications during 1905.—*Transactions*, Supplementary Part, containing "The Persons and Places of the Brontë Novels—Shirley," by Herbert E. Wroot, price 2s. 6d.; *Eleventh Annual Report*.

CHETHAM SOCIETY,

FREE REFERENCE LIBRARY, KING STREET, MANCHESTER.

(FOUNDED 1843.)

Officers.—*President*: Dr A. W. Ward. *Hon. Secretary*: C. W. Sutton, Free Reference Library, Manchester.

Meeting.—The Annual Meeting takes place in March.

Membership.—No Entrance Fee ; Annual Subscription, 20s.

Publications during 1904.—Vols. LII., LIII., LIV., New Series, *A History of Newton Chapelry in the Parish of Manchester*, by H. T. Crofton. Vol. I., Vol. II., Part 1, and Vol. II., Part 2.

CLIFTON SHAKSPERE SOCIETY.

(FOUNDED 1876.)

Officers.—*President*: Miss Julia Gillard. *Hon. Secretary*: L. M. Griffiths, 11 Pembroke Road. *Hon. Assistant-Secretary*: Miss Dora Cave, 10 Royal Park.

Meetings.—Second and fourth Saturdays in each month, from October to May, at 7.30 P.M., at Members' houses. The Anniversary Meeting is held on the first Saturday in October.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 5s.

List of Papers read during Session 1904-1905.

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| <i>Blake, K. G.</i> —Rosalind and Celia. Oct. 22. | <i>Gillard, J.</i> —Tradition and Folk-lore. ("Twelfth Night.") Dec. 10. |
| —A Survey of the Character of Hamlet. Apr. 29. | —Tradition and Folk-lore. ("Hamlet.") Apr. 29. |
| <i>Boucher, C. E.</i> —The Religious Condition of England in Shakspeare's Time. (Presidential Address.) Oct. 1. | —Historical Life of Thomas, Lord Cromwell. Nov. 26. |
| —The Marriage Rite. ("Twelfth Night," v. 1, 160-165.) Dec. 10. | —The Two Anxious Wives. ("Julius Cæsar.") Jan. 28. |
| —Mediæval Burial Customs. Apr. 8. | —The Musical Allusions in Antonio and Mellida. Feb. 18. |
| <i>Cave, D.</i> —Social Customs Mentioned in "Antonia and Mellida," Illustrated by Marston's Satires. Feb. 18. | <i>Griffiths, L. M.</i> —Thomas Cromwell's Connection with the Great Bible. Nov. 26. |
| —Shakspeare's Suicides. Apr. 29. | —Marston's Shakspearianisms. Feb. 18. |
| <i>Cook, E. H., D.Sc.</i> —Cornelius. ("Hamlet.") Apr. 29. | —Hamlet's Mental Condition. Apr. 8. |
| <i>Davies, Louisa M.</i> —The Forest of Arden. Oct. 22. | —Antonio's Revenge and Hamlet. May 27. |
| —Five Minutes in Distinguished Company. ("Julius Cæsar.") Jan. 28. | <i>Smith, J. M.</i> —Evidences in "As You Like It" of Influence of Poets on one Another. Oct. 22. |
| <i>Davies, Rev. T.</i> —Classical Allusions in Twelfth Night. Dec. 13. | —Ophelia. Apr. 29. |
| —How Shakspeare has Dramatized History. ("Julius Cæsar.") Jan. 28. | <i>Spenser, Mrs. E. J.</i> —Biblical and Religious Allusions in Hamlet. Apr. 8. |
| <i>Gillard, J.</i> —Tradition and Folk-lore. ("As You Like It.") Oct. 22. | <i>Strachan, W.</i> —Historical Life of Thomas, Lord Cromwell. Nov. 26. |
| —Tradition and Folk-lore. ("Thomas, Lord Cromwell.") Nov. 26. | —The Title of Twelfth Night. Dec. 10. |
| | —Law Allusions in Act I, 5, "Hamlet." Apr. 8. |
| | —The Sanity of Hamlet. Apr. 29. |

DORSET RECORDS,

172 EDMUND STREET, BIRMINGHAM. (FOUNDED 1894.)

Officers.—*Editor and Secretary*: E. A. Fry, 172 Edmund Street, Birmingham.

Membership.—Annual Subscription, 10s. 6d.

Publications, 1904.—(1) *Abstracts of Dorset Feet of Fines, 19-40 Edward III., 1345-1366*; (2) *Calendar of Dorset Wills in the P.C.C., 1383-1700.*

HAMPSHIRE RECORD SOCIETY,

23 ST PETER'S STREET, WINCHESTER. (ESTABLISHED 1888.)

Officers.—*President*: Right Rev. the Lord Bishop of Winchester. *Hon. Editorial Secretary*: Rev. G. W. Minns, LL.B., F.S.A., The Cliff, Weston, near Southampton. *Gen. Secretary*: Rev. A. G. Bather, M.A., Winchester College.

Meetings.—Quarterly, or as occasion demands.

Membership.—Annual Subscription, 21s.

[*No Return.*]

HISTORIC SOCIETY OF LANCASHIRE AND CHESHIRE,

ROYAL INSTITUTION, COLQUITT STREET, LIVERPOOL.

(FOUNDED 1848.)

Officers.—*President*: Right Hon. the Earl of Derby, K.G. *Hon. Secretary*:
Wm. Fergusson Irvine, F.S.A., 56 Park Road South, Birkenhead.

Meetings.—On alternate Thursdays, from Nov. to March, at 7.15 p.m. The
Anniversary Meeting takes place in January.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publication.—*Transactions*, Vols. LV., LVI.; issued only to Members

LANCASHIRE PARISH REGISTER SOCIETY,

MAB'S CROSS, WIGAN.

Officers. — *President*: Lt.-Col. Fishwick, F.S.A. *Hon. Secretary*: Henry
Brierley, Mab's Cross, Wigan.

Meetings.—The Annual Meeting is held in February. Ordinary Meetings as
may be arranged.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publications for 1904-1905 (issued to Subscribers only).—*Registers of Colne*, 1599-
1653; *Middleton* (Part 2), 1653-1729; *Poultton*, 1591-1677; *Croston* (Part 1)
(reprint of Vol. VI., owing to the discovery of additional matter) Baptisms,
1543-1727; Marriages and Burials, 1543-1685; *Croston* (Part 2) Marriages
and Burials, 1690-1727; *Cockerham*, 1595-1657.

MANCHESTER LITERARY CLUB,

GRAND HOTEL, AYTOUN STREET.

Officers.—*President*: G. Milner. *Hon. Secretary*: W. R. Credland, 185 Great
Cheetham Street, Higher Broughton.

Meetings.—Weekly, from October to April inclusive, on Mondays, at 7 p.m.
The Annual Meeting takes place in April.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.

List of Papers read during Session 1904-1905.

Bagshaw, W.—The Novels of Lord
Beaconsfield. Feb. 13.
Bateman, C. T. T.—L.E.L. (Letitia
E. Landon): an Appreciation.
Jan. 30.

Brocklehurst, J. H.—The Poems of
Swinburne. Mar. 13.
Butterworth, W.—Camœns. Jan. 16.
Dunville, N.—The Operas of Bishop.
Nov. 21.

- Fox, Rev. A. W.*—Aran of the Saints. Oct. 31.
Gadd, G. F.—The Mystery of Edwin Drood : some Attempts to Solve it. Oct. 24.
Hall, Rev. W. C.—Richard Crashaw. Mar. 6.
Hudson, J. H.—The Staging of Shakespeare's Ghosts. Oct. 17.
Johnson, W. N.—The Wisdom and Humour of W. H. Pyne. Nov. 14.
Kay, T.—Glimpses and Impressions of the West Indies. Oct. 10.
Leech, A. L.—The Dream Land and Real Land of Burns. Feb. 27.
Mercer, E.—Talleyent des Réaux, the Pepys of France. Feb. 6.
Monkhouse, A. N.—George Gissing. Dec. 12.
Nicholson, A.—John Crozier of Riddings (Master of Hounds). Mar. 20.
Prestage, E.—De Mello's "Government of a Wife." Dec. 5.
 —Eca de Queiroz. Feb. 20.
Swindells, T.—Deansgate : Manchester's Oldest Thoroughfare. Nov. 7.
 —Deansgate in the Nineteenth Century. Jan. 23.
Walters, J. C.—The Jew that Shakespeare Drew. Nov. 28.
 —Celtic Magic. Jan. 9.

PARISH REGISTER SOCIETY,

172 EDMUND STREET, BIRMINGHAM. (FOUNDED 1896.)

Officers.—*President*: Lord Hawkesbury. *Hon. Secretary*: E. A. Fry, 172 Edmund Street, Birmingham.

Membership.—No Entrance Fee ; Annual Subscription, 21s.

Meeting.—The Annual Meeting is held early in May.

Publications during 1904.—*Verbatim Copies of Parish Registers of* Weddington, Warwick ; Glasbury, Brecon ; Solihull, Warwick ; Chester Cathedral, Cheshire ; *List of Parish Registers*: Appendix.

EX LIBRIS SOCIETY.

Officers.—*Chairman of Council*: W. Bruce Bannerman, F.S.A. *Hon. Secretary*: W. H. K. Wright, Public Library, Plymouth. *Hon. Treasurer*: S. A. Grundy-Newman, Littleton Place, Walsall.

Meetings.—The Anniversary Meeting is in May or June. Ordinary Meetings are held at irregular intervals in London. A Monthly Journal is published for the Society by Messrs A. & C. Black, Soho Square, London.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 21s.

SHROPSHIRE PARISH REGISTER SOCIETY,

124 CHANCERY LANE, W.C.

Officers.—*President*: Lord Windsor. *Hon. Secretary*: Rev. W. G. D. Fletcher, M.A., F.S.A., Oxon Vicarage, Shrewsbury.

Meetings.—The Annual Meeting is held in January. Ordinary Meetings are arranged at intervals.

Membership.—No Entrance Fee ; Annual Subscription, £1, 1s.

Publications for 1904-1905.—*The Registers of Condover, Cleobury Mortimer, and Oswestry* (Part I.); *The Registers of Kinnerley, Ruyton-in-the-XI.-Towns, Leebstwood, Longnor, Greete, Bedstone, Claverley* (Part I.).

**SOMERSET RECORD SOCIETY,
PUCKINGTON RECTORY, ILMINSTER.**

Officer.—*Hon. Secretary* : Rev. E. H. Bates, M.A.

Membership.—Annual Subscription, One Guinea. 115 Members.

Publications, 1904.—Vol. XX., *Certificate of Musters in the County of Somerset*, A.D. 1569, by E. Green, F.S.A., F.R.S.L.

**THE SURREY PARISH REGISTER SOCIETY,
CASTLE ARCH, GUILDFORD. COUNCIL ROOM, 140 WARDOUR
STREET, LONDON, W. (FOUNDED 1903.)**

Officers.—*President* : The Right Hon. Viscount Midleton, Lord Lieutenant of Surrey. *Hon. Secretary* : W. Bruce Bannerman, F.S.A., The Lindens, Croydon, Surrey.

Objects.—The printing and publishing of the Surrey Parish Registers.

Meetings.—The Annual Meeting is held in March or April. Other Meetings as required.

Membership.—No Entrance Fee ; Annual Subscription, 21s.

Publications issued in 1904 (to Subscribers only).—*The Parish Registers of Godalming*, Part 1, 21s.; *Wanborough, Richmond*, Part 2 ; and *Farleigh*.

**THE WILTS RECORD SOCIETY,
WEST LODGE, WILTON, SALISBURY.**

Officers.—*President* : Rt. Rev. the Bishop of Salisbury. *Secretary* : C. R. Straton, F.R.C.S., West Lodge, Wilton, Salisbury.

Membership.—Annual Subscription, 10s. 6d.

**WORCESTERSHIRE HISTORICAL SOCIETY,
SHIREHALL, WORCESTER. (FOUNDED 1893.)**

Officers.—*President* : Rt. Hon. the Earl of Coventry. *Hon. Editor* : J. Amphlett, M.A. *Hon. Secretary* : Rev. J. B. Wilson, M.A., F.S.A., Knightwick Rectory, Worcester. *Secretary* : A. Harrison, Guildhall, Worcester.

Meetings.—When necessary. The Anniversary Meeting is held in February.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 21s.; Life Composition, £10, 10s.

Publications.—*Order Book of Hartlebury Grammar School, 1556–1752* ; *Index of Wills proved at Worcester, 1451–1600*, Part IV.

YORKSHIRE DIALECT SOCIETY,

CENTRAL FREE LIBRARY, BRADFORD. (FOUNDED 1897.)

Officers.—*President*: Marquis of Ripon, K.G. *Corresponding Secretary*: Rev. Thomas Clarke, 75 New Cross Street, Bradford.

Meetings.—The Annual Meeting is held in September or October. Ordinary Meetings three times in the year.

Membership.—No Entrance Fee; Annual Subscription, 2s. 6d. Life Composition, £2.

[*No Return.*]

YORKSHIRE PARISH REGISTER SOCIETY.

(FOUNDED 1899.)

Officers.—*President*: Sir G. J. Armytage, Bart., F.S.A. *Hon. Secretaries*: Francis Collins, M.D., Pateley Bridge, near Leeds; G. D. Lumb, 65 Albion Street, Leeds. *Hon. Treasurer*: J. A. Hirst, 5 East Parade, Leeds.

Membership.—Annual Subscription, 21s.

Publications (to Members only).—*Bolton by Bolland Register* (Part I.); *Pickhill Register*; *Howden Register* (Part I.).

SCOTLAND.**NEW SPALDING CLUB,**

UNIVERSITY LIBRARY, ABERDEEN.

Officers.—*President*: Earl of Aberdeen, G.C.M.G., LL.D. *Chairman of Business Committee*: Col. William Allardyce, LL.D. *Secretary*: P. J. Anderson, LL.B., University Library, Aberdeen.

Meetings.—At irregular intervals. The Anniversary Meeting takes place in December.

Membership.—Number limited to 500. No Entrance Fee; Annual Subscription, 21s.; Life Composition, £10, 10s.

Publications during 1904.—*The Records of the Sheriffdom of Aberdeen*, edited by David Littlejohn, LL.D., Vol. I. Records prior to 1600. Pp. xlvii. + 476. *Sixteenth and Seventeenth Annual Reports. List of Members.* 10s. 6d.

THE EDINBURGH BIBLIOGRAPHICAL SOCIETY,

THE PHILOSOPHICAL INSTITUTION. (INSTITUTED 1890.)

Officers.—*President*: Harry G. Aldis. *Hon. Secretary*: Geo. P. Johnston, 33 George Street.

Meetings.—Second Thursday in the month, from November till March inclusive.
The Anniversary Meeting is held on the first Thursday in November.

Membership (limited to 70).

Publication for Session 1904–1905 (to Members only).—*A List of Books printed in Scotland before 1700, including those printed furth of the Realm for Scottish Booksellers, with brief Notes on the Printers and Stationers*, by Harry G. Aldis, 1904, price 12s. 6d.

List of Papers read during Session 1904–1905.

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| <p><i>Aldis, H. G.</i> — Some Notes and a Suggestion for Future Work. Mar. 9.</p> <p><i>Cowan, W.</i> — Notes on the Early Plans and Views of Edinburgh. Mar. 9.</p> <p><i>Edmond, J. P.</i> — Conrad Sweynheym and Arnold Pannartz, the First Roman Printers. Dec. 8.</p> | <p><i>Sinton, J.</i> — Dr John Leyden, Poet and Orientalist. Nov. 10.</p> <p><i>Steele, R.</i> — About Proclamations. Feb. 9.</p> <p><i>Sturrock, Rev. J.</i> — Notes on the Writings of Samuel Rutherford, Particularly the Early Editions of his Letters. Jan. 10.</p> |
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THE EDINBURGH GERMAN SOCIETY.

(FOUNDED 1900.)

Officers.—*President*: Prof. A. S. Pringle-Pattison, LL.D., D.C.L. *Secretary*: John Hamilton, C.A., 56 George Street, Edinburgh.

Objects.—To promote the study of the German Language and Literature, to afford the Members opportunities for social intercourse and exchange of ideas, etc., and to financially assist deserving Students of German.

Membership.—Annual Subscription, 10s.

Meetings.—Thursdays every month.

List of Papers read during Session 1904–1905.

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| <p><i>Freund, Dr J.</i> — Friedrich Schiller. Jan. 13.</p> <p><i>Goschen, Viscount.</i> — Friedrich Schiller. Mar. 9.</p> <p><i>Haldane, Right Hon. R. B., K.C., M.P.</i> — Great Britain and Germany. Further Reflections on Education. Oct. 17.</p> | <p><i>Halm, Dr.</i> — Einiges aus der Geschichte unserer Sonne. Dec. 9.</p> <p><i>Reimer, Pastor F.</i> — Die gegenwärtige religiöse Lage in Deutschland. Nov. 18.</p> <p><i>Schlapp, Dr O.</i> — Martin Luther. Mar. 10.</p> <p><i>Thun, Pastor.</i> — Gustav Freyssens Jörn Uhl. Feb. 10.</p> |
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GLASGOW BALLAD CLUB,

NORTH BRITISH STATION HOTEL. (FOUNDED 1876.)

Officers.—*President*: H. Johnston. *Secretary*: W. Buchanan, Dunclutha, Tolcross, Glasgow.

Membership.—Annual Subscription, 5s.

Meetings.—Second Saturday in each month, during Winter, at 8 p.m. The Anniversary Meeting takes place in April.

NORTH BUTE LITERARY SOCIETY,

ST NINIAN'S HALL, PORT-BANNATYNE.

Officers.—*President*: W. A. Stewart, B.L. *Secretary*: J. Lamont Macfie,
Balmoral, Port-Bannatyne.

Membership.—Annual Subscription, 1s.

Meetings.—On Thursdays, at 7.30 P.M., from November to February inclusive.
Anniversary Meeting, March.

List of Papers read during Session 1904–1905.

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| <i>Brown, W. D.</i> —A Chat about Bees and their Ways. Jan. 26. | <i>Lamont, N.</i> —A Trip to the West Indies. Dec. 1. |
| <i>Cameron, Rev. J.</i> , B.D.—An Italian Holiday. Dec. 15. | <i>Matthews, Canon.</i> —Butterflies of Great Britain. Nov. 17. |
| <i>Cuthbertson, M.</i> —Amateur Gardening. Nov. 24. | <i>Poole, H.</i> —Up the Thames. Jan. 19. |
| <i>Douglas, Miss A.</i> —Highland Legends and Lore. Dec. 8. | <i>Trail, Rev. J.</i> , B.D.—The Bad Old Times. Feb. 9. |
| <i>Duncan, G. A.</i> —The Electric Telegraph: its Rise and Progress. Nov. 10. | <i>Whyte, J.</i> , A.L.C.M.—Coleridge's Ancient Mariner. Feb. 2. |

SCOTTISH HISTORY SOCIETY.

(FOUNDED 1886.)

Officers.—*President*: The Earl of Rosebery, K.G., K.T. *Chairman of Council*: David Masson, LL.D. *Hon. Secretary*: J. T. Clark, Keeper of the Advocates Library.

Meetings.—The Anniversary Meeting takes place at the end of October. Meetings of Council occur on the last Tuesday in May, and the Tuesday preceding the Annual Meeting.

Membership.—Annual Subscription, 21s. Number of Members (exclusive of Libraries), limited to 400.

Publications (issued to Members only).—*Minute Book of the Managers of the New Mills Cloth Manufactory, 1681–1690*, edited by W. R. Scott, St Andrews University, January 1905; *Polichronicon seu Policratica Temporum, or the true Genealogy of the Frasers*, by Master James Fraser, edited by William Mackay, Inverness, February 1905; *Justiciary Court Proceedings, 1661–1674*. Vol. I. 1661–1669, edited by Sheriff Scott Moncrieff, June 1905.

IRELAND.

NATIONAL LITERARY SOCIETY,

6 ST STEPHEN'S GREEN, DUBLIN.

Officers.—*President*: George Sigerson, M.D., F.R.U.I. *Hon. Secretary*: W. A. Henderson, "Belclare," Leinster Road West, Rathmines, County Dublin.

Meetings.—Every Monday at 8.30 P.M., from November to June. The Annual Meeting is held in June.

Membership.—Annual Subscription, 10s.; Associate Members (living 20 miles and over from Dublin), 5s.

List of Papers read during Session 1904–1905.

- Bailey, Mr* Commissioner.—An Irishman's Views of Many Lands. Apr. 3.
- Carmichael, Miss E. C.*—Celtic Folk-Lore: the Belief in the Evil Eye. Dec. 16.
- Cole, Prof. Grenville A. J.*, M.R.I.A., F.G.S.—The Ground of Ireland. Feb. 13.
- Cox, Michael, F.*, M.D.—Parson Kelly. May 15.
- Haydew, Miss M.*, M.A.—Giraldus Cambrensis. Jan. 30.
- Healy, C.*—Barney M'Glone. Dec. 5.
- Holloway, J.*, M.R.I.A.I.—The Abbey Theatre. Feb. 20.
- Joynt, Miss M.*, M.A.—Irish Precursors of the Divine Comedy. Jan. 23.
- Lawrence, W. J.*—The Early Cork Stage. Dec. 12.
- Lyster, T. W.*, M.A.—Some Views and Facts on the Irish Library Movement. Feb. 27.
- Maguire, Connor*, M.D., J.P.—Some Popular Beliefs in Mayo (in Irish). Nov. 21.
- Mayo, Rt. Hon. The Earl of*, K.P.—The Art Movement in Dublin. Apr. 17.
- O'Connell, Rev. M. K.*—The Educational Value of National History. Apr. 10.
- Plunkett, Count*, B.L.—Thomas Frye. Jan. 16.
- Rogers, B.*—The Art of the Bards. May 8.
- Rolleston, T. W.*—Ireland's Second Home: some Observations on America and the St Louis Exhibition. Mar. 13.
- Russell, T. O'N.*—The Four Masters. Nov. 28.
- Sigerson, G.*, M.D., F.R.U.I.—The First Epic of Christendom. Nov. 14.
- Rev. Mr Porter, a Northern Humorist. Mar. 6.
- Strickland, W. G.*—Irish Miniature Paintings. Mar. 27.
- Trench, H.*—Modern Irish Poetry. May 1.

SOCIETY FOR THE PRESERVATION OF THE IRISH LANGUAGE,

6 MOLESWORTH STREET, DUBLIN.

Officers.—*President*: Right Hon. O'Connor Don, M.R.I.A. *Vice-President*: Count Plunkett, B.L., F.S.A., M.R.I.A. *Hon. Secretaries*: James Halligan; P. T. Keohane. *Secretary of Council*: J. J. MacSweeney, R.I.A.

Meetings.—On Tuesdays, at 5.30 P.M.

Membership.—Annual Subscription: Members, 10s.; Associates, 1s.

Publications during 1905.—*Report for 1904*; *Irish Prose*, by Rev. P. S. Dineen, M.A.; *Irish Poetry*, by Dr Douglas Hyde, M.R.I.A.; *Saothair ar Sean i gléin*, by J. J. O'Kelly.

SECTION XII. PSYCHOLOGY.

LONDON.

ARISTOTELIAN SOCIETY FOR THE SYSTEMATIC STUDY OF PHILOSOPHY,

22 ALBEMARLE STREET, W. (FOUNDED 1879.)

Officers.—*President*: Rev. Hastings Rashdall, M.A., D.C.L. *Hon. Secretary*:
H. W. Carr.

Meetings.—First Monday in the Month, from November to June, at 8 P.M.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publication.—*Proceedings*, New Series, Vol. V., 10s. 6d. net (Williams and Norgate).

List of Papers read during Session 1904–1905.

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| <p><i>Carr, H. W.</i>—The Metaphysical Criterion and its Implications. June 5.</p> <p><i>Gibson, Prof. W. R. B.</i>—Self-Inspection. Feb. 6.</p> <p><i>Hicks, Prof. G. D.</i>—Idealism and the Problem of Knowledge and Existence. Dec. 5.</p> <p><i>M'Intyre, Dr J. L.</i>—Value Feelings and Value Judgments. Mar. 6.</p> | <p><i>Rashdall, Dr H.</i>—Moral Objectivity and its Postulates. Nov. 7.</p> <p><i>Shearman, A. T.</i>—Some Controverted Points in Symbolic Logic. Apr. 3.</p> <p><i>Sturt, H.</i>—The Line of Advance in Philosophy. Jan. 2.</p> <p><i>Webb, C. C. J.</i>—The Personal Element in Philosophy. May 1.</p> |
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THE SOCIETY FOR PSYCHICAL RESEARCH,

20 HANOVER SQUARE, W.

Officers.—*President*: Prof. C. Richet. *Secretary*: Miss Alice Johnson,
20 Hanover Square, W.

Meetings.—At intervals of a few weeks, October to June. The Annual General Meeting takes place in January.

Membership.—No Entrance Fee; Annual Subscription: for Members, 42s.; for Associates, 21s.; Life Composition, £21 and £10, 10s.

Publications.—*Proceedings*, Part XLIX., 5s.; L., 2s.; and *Journal* (monthly).

*Papers communicated during Session 1904–1905; those marked *
have been published.*

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| <p><i>Feilding, The Hon. E.</i>—On some Cases Recently Received. Oct. 21.</p> <p><i>Fryer, Rev. A. T.</i>—Psychological Aspects of the Welsh Revival of 1904. June 29.</p> <p><i>Olivier, S., C.M.G.</i>—Some Normal Extensions and Intensifications of Conscious Perception. Mar. 27.</p> | <p><i>Richet, Prof. C.</i>—Presidential Address: La Métapsychique. Feb. 6.*</p> <p>—De quelques Observations de Clairvoyance. May 11.</p> <p><i>Taylor, Lieut.-Col. Le M.</i>—Report on Various Spiritualistic Phenomena. Dec. 5.*</p> |
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**CHILDHOOD SOCIETY,
FOR THE SCIENTIFIC STUDY OF THE MENTAL AND PHYSICAL
CONDITION OF CHILDREN,**

PARKES MUSEUM, MARGARET STREET, W.

Officers.—*President*: Rt. Hon. Earl Egerton of Tatton. *Chairman*: Sir Edward W. Brabrook, C.B., F.S.A. *Hon. Secretary*: W. J. Durrie Mulford.

Membership.—Annual Subscription, 10s. 6d.

Meetings.—On Thursday evenings, at 8 P.M. The Anniversary Meeting is held in May.

List of Papers read during Session 1904–1905.

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| <p><i>Discussion</i> on Physical Deterioration. Oct. 20. — The Proposed Anthropometric Survey. Feb. 16. — Provision made under the Elementary Act, 1899, for Training of Defective Children. Mar. 30. <i>Findlay, Miss M. E.</i>, B.A.—Education of Girls. Nov. 24.</p> | <p><i>Hyslop, T. B.</i>, M.D.—Mental Hygiene in Childhood. Nov. 10. <i>Lawrence, Miss.</i>—Method of Training Froebelian Teachers. Mar. 2. <i>Macnamara, T. J.</i>, M.P.—Physical Condition of Working-Class Children. Oct. 27. <i>Warner, F.</i>, M.D.—Mental Faculty of the Child: its Growth and Culture. Mar. 2.</p> |
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ETHOLOGICAL SOCIETY,

SOCIETY FOR THE SYSTEMATIC STUDY OF HUMAN CHARACTER,

62 QUEEN ANNE STREET, CAVENDISH SQUARE, W.

Officers.—*President*: B. Hollander, M.D. *Hon. Secretary*: A. F. Brady.

Membership.—Annual Subscription, 1 Guinea.

Publication.—*Ethological Journal*.

Papers read during Session 1904–1905.

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| <p><i>Ames, P.</i>, LL.D — Some Physical Factors in Human Character. Jan. 10. <i>Coit, Dr S.</i>—The Secret of Character-Building. Feb. 15. <i>Durand, R. A.</i>—The Influence of Civilisation on the Character of Primitive People. May 17.</p> | <p><i>Holmes, T.</i>—Obscure Causes of Crime. Dec. 14. <i>Suyematsu, Baron.</i> — The Japanese Character. Mar. 29. <i>Wallace, Dr A. R.</i>, F.R.S.—A Practical Suggestion. Nov. 16.</p> |
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NATURE-STUDY SOCIETY.

Officer.—*Hon. Secretary*: Wilfred Mark Webb, F.L.S., "Odstock," Hanwell, W.

Meetings.—Exhibitions to be organised from time to time.

Membership.—Subscription, 5s. and upwards.

SECTION XIII.

ARCHÆOLOGY.

LONDON.

SOCIETY OF ANTIQUARIES OF LONDON,

BURLINGTON HOUSE, PICCADILLY.

(FOUNDED ABOUT 1572; INCORPORATED BY ROYAL CHARTER, 1751.)

Officers. — *President*: The Rt. Hon. Lord Avebury, D.C.L. *Treasurer*: P. Norman. *Director*: F. G. Hilton Price. *Secretary*: C. H. Read. *Assistant Secretary*: W. H. St John Hope, M.A. *Clerk*: G. Clinch.

Meetings. — On Thursdays, from November to June inclusive, at 8.30 P.M. The Anniversary Meeting takes place on St George's Day (April 23).

Membership. — Entrance, 8 Guineas; Annual Subscription, 3 Guineas; Life Composition, £55.

Publications. — *Archæologia* (annually), Vol. LIX.; *Proceedings*; *The Royal Gold Cup*, by C. H. Read.

*Papers read during Session 1904–1905, and published in the "Proceedings," 2nd Series, Vol. XX., Part 2, and in "Archæologia," Vol. LIX., Part 2. Those marked * are in "Proceedings," those marked † are in "Archæologia."*

Cheales, Rev. H. J., M.A. — On the Wall - Paintings in Friskney Church, Lincs. Mar. 16.†

Clark, E. K., M.A., F.S.A. — Report as Local Secretary for Yorks. Mar. 23.*

Collier, Rev. C. V., F.S.A. — On a Discovery of Roman Remains at Harpham, E.R., Yorks. Feb. 9.*

Dalton, O. M., M.A., F.S.A. — Notes on the Walls and Fortifications of Famagusta, and on an Early Byzantine Treasure found in the Neighbourhood of Kyrenia. Mar. 30.

Davenport, C., V.D., F.S.A. — Samuel Mearne and his Bindings. Feb. 16.*

Elworthy, F. T., F.S.A. — On the Mano Pantea, or so-called Votive Hand. May 25.*

Evans, A. J., Litt.D., F.R.S., F.S.A. — The Tombs of Minoan Knossos. Jan. 19.†

Evans, Sir J., K.C.B., F.R.S., F.S.A. — On a Lambeth Salt-Cellar of the Company of Parish Clerks. May 11.*

Fox, G. E., F.S.A. — On some Probable Traces of Roman Fulling in Britain. Nov. 24.†

Gowland, W., V.P. — On some Crucibles from Rhodesia. Mar. 9.*

Greenwell, Rev. W., D.C.L., F.R.S., F.S.A. — Excavation of a Cemetery of the Late Celtic Period in East Yorkshire. Mar. 23.†

Hartshorne, A., F.S.A. — On the Brass of Sir Hugh Hastings at Elsing, Norfolk. May 11.†

Hill, G. F., M.A. — The Thirty Pieces of Silver. Dec. 8.†

Hope, W. H. St J., M.A. — Excavations on the Site of the Romano-British Town at Silchester, Hants, in 1904. June 22.†

Kirby, T. F., M.A., F.S.A. — Some Notes on Fourteenth-Century Conveyancing. Feb. 23.†

- Laver, H.*, F.S.A.—On a Discovery of a Late Celtic Burial at Colchester. Feb. 9.*
- Martin, A. T.*, M.A., F.S.A.—Recent Discoveries near Bath. Mar. 16.*
- On Excavations on the Site of the Romano-British Town at Caerwent in 1904. May 18.†
- Minet, W.*, M.A., F.S.A.—On Two Early Seventeenth-Century Rolls of Norfolk: Swan-Marks. Apr. 6.*
- Price, F. G. H.*, Dir.S.A.—On some Antiquities Found in Thames Street, London. Feb. 16.*
- Read, C. H.*, F.S.A.—On a Gold Cup belonging to the Duke of Portland. Dec. 1.†
- Reid, C.*, F.R.S.—The Island of Iotia. June 29.†
- Rice, R. G.*, F.S.A.—On some Palæolithic Implements from the Terrace Gravels of the River Arun and the Western Rother. Feb. 2.*
- Sandars, H.*—On a Roman Bas-Relief from Linares, and Roman Mining Operations in Spain. Mar. 9.†
- Smith, R. A.*, B.A., F.S.A.—The Ancient British Iron Currency. Jan. 26.*
- On the Evolution of Late Celtic Pins of the Hand-Type. June 29.*
- Stephenson, M.*, B.A., F.S.A.—Some Recently Discovered Palimpsest Brasses. May 11.*
- Weaver, L.*, F.S.A.—Lead Rain-Water Heads of the Sixteenth and Seventeenth Centuries. Apr. 13.
- Webb, E. A.*, F.S.A.—On the Austin Priory of St Bartholomew, W. Smithfield. May 25.†

ROYAL ARCHÆOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,

20 HANOVER SQUARE, W.

Officers.—*President*: Sir Henry H. Howorth, K.C.I.E., M.P., F.R.S. *Hon. Secretary*: W. Hale-Hilton, 20 Hanover Square.

Meetings.—First Wednesday in the Month, from November to July (January excepted). The Annual Meeting for 1904 was held at Bristol, July 21st to 28th.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.; Life Composition, 15 Guineas.

The Papers read are published in the "Archæological Journal," price 7s. 6d. each Quarterly Part.

BRITISH ARCHÆOLOGICAL ASSOCIATION,

32 SACKVILLE STREET, PICCADILLY, W. (FOUNDED 1843.)

Officers.—*President*: J. M. Sutton. *Hon. Secretaries*: George Patrick, A.R.I.B.A., 1 Gresham Buildings, Basinghall Street, E.C.; Rev. H. J. D. Astley, M.A., Litt.D., East Rudham, King's Lynn, Norfolk.

Meetings.—On the third Wednesday in the Month, from November to June, at 8 P.M. The Annual Meeting is held in May.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.; Life Composition, 15 Guineas.

Publication.—*The Journal* (annually), price £1, 11s. 6d.

List of Papers read during Session 1904-1905.

- Astley, Rev. Dr. M.A.*—Notes on the IXth Iter of Antoninus, with Special Reference to the Sites of Venta Icenorum and Sitomagus. June 21.
- Cart, Rev. H., M.A.*—Norman Art and Architecture in Sicily. Jan. 18.
- Compton, C. H.*—Villa Faustini. Mar. 15.
- Dack, C.*—Folk and Weather Lore of Peterborough and District. Apr. 12.
- Evelyn-White, Rev. C. H., F.S.A.*—The Church and Parish of Chesham, Bucks, otherwise Chesham, Leicester, and Woburn. May 17.
- Garstang, J., F.S.A.*—The Roman Fort at Brough. Nov. 16.
- Green, E., F.S.A.*—Bath Old Bridge and the Chapel thereon. Dec. 14.
- Oliver, A., A.R.I.B.A.*—London, Monastic and Ecclesiastical. Feb. 15.

**BRITISH MUSEUM,
BLOOMSBURY, W.C.**

FOUNDED 1753 : OPENED 1759.

Officers.—*Director and Principal Librarian* : Sir E. Maunde Thompson, K.C.B., I.S.O., D.C.L., LL.D., V.P.S.A. *Superintendent of Reading Room* : G. F. Barwick. *Keepers* : *Printed Books*, G. K. Fortescue; *Manuscripts*, G. F. Warner, Litt.D. *Oriental Printed Books and Manuscripts* : Sir R. K. Douglas. *Prints and Drawings* : S. Colvin, M.A. *Egyptian and Assyrian Antiquities* : E. A. W. Budge, Litt.D., D.Litt. *Greek and Roman Antiquities* : Cecil H. Smith, LL.D. *British and Mediæval Antiquities and Ethnography* : C. H. Read, F.S.A. *Coins and Medals* : B. V. Head, D.C.L.

Days when Open.—Every week day, except Good Friday and Christmas day, 10 to 6; and on Sunday afternoons. The Reading-room is open to adults every week day (except above, and first four week days in March and September) from 9 A.M. to 7 P.M.

Publications, 1904-1905.—*Cuneiform Texts from Babylonian Tablets*. Parts XVIII., XIX., XX., and XXI., 7s. 6d. each. *Catalogue of the Treasure of the Oxus*, 25s. half vellum, 21s. cloth. *Catalogue of the Greek Coins, Cyprus*, 15s. *Medallic Illustrations of the History of Great Britain and Ireland*. Parts II. and III., plates 11-30, 6s. a part. *Facsimiles in Gold and Colours of Miniatures, etc., from Illuminated MSS.* Fourth Series and First Series (2nd edition), 15 plates, £2, 10s. each series. *Index to the Sloane MSS.*, £1, 1s. *Catalogue of Hebrew and Samaritan MSS.* Part II., £3, 15s. *Japanese Printed Books and MSS.* Supplement, 10s. *Catalogue of English Porcelain*, 21s. *Reproductions of Prints*. Part XIV. (*Specimens of Line-Engraving by Italian Masters of the Eighteenth Century*), £2. *Catalogue of British and American Bookplates bequeathed to the Trustees of the British Museum*, by Sir A. W. Franks, K.C.B. 3 vols., £1 each. *General Guide to Exhibition Galleries*. (5th edition), 2d. *Guide to 3rd and 4th Egyptian Rooms*, 1s. 6d. *Guide to the Later Greek and Græco-Roman Statues and Busts*, 4s. *Reliefs*, 3s.

THE HORNIMAN MUSEUM,

LONDON ROAD, FOREST HILL, S.E. (FOUNDED 1890 : REBUILT 1900.)

Officers.—*Chairman* : F. Dolman. *Advisory Curator* : A. C. Haddon, M.A., D.Sc., F.R.S. *Resident Curator* : H. S. Harrison, D.Sc.

Publications.—*Guide Book and Report*; *Handbook to Vivaria and Freshwater Aquaria*.

The following Lectures were given in the Museum :—By Prof. Geddes : Ten Lectures on “Great Cities : their Place in Geography and their Relation to Human Development.” By Dr A. C. Haddon : Ten Lectures on “Animal Life in a Marine Aquarium,” and Five Lectures on “Magic and Primitive Religion.”

SOCIETY OF BIBLICAL ARCHÆOLOGY,

37 GREAT RUSSELL STREET, BLOOMSBURY, W.C. (FOUNDED 1870.)

Officers.—*President* : Prof. A. H. Sayce, LL.D. *Secretary* : W. L. Nash, F.S.A. *Hon. Foreign Secretary* : F. Legge.

Meetings.—Second Wednesday in each month, at 4.30 P.M., from November to June inclusive (excluding April). The Anniversary Meeting takes place in January.

Membership.—No Entrance Fee ; Annual Subscription, One Guinea ; Life Composition, £15, 15s.

List of Papers read during Session 1904–1905.

Dennis, J. T.—New Officials of the IV. to V. Dynasties.

Griffith, F. L.—Note on an Egyptian Gold Signet Ring.

Hall, H. R.—Greek Mummy Labels in the British Museum.

Howorth, Sir H. H.—The God Asshur

and the Epic of “Marduk and Tiamat.”

Sayce, Prof. A. H.—Discovery of Archaic Hittite Inscriptions in Asia Minor.

Winstedt, E. O.—Sahidic Biblical Fragments.

THE INTERNATIONAL SOCIETY OF THE APOCRYPHA.

Officers.—*President* : The Bishop of Winchester, D.D. *Warden* : The Rev. Herbert Pentin, M.A., F.S.A.Scot., Milton Abbey Vicarage, Dorset.

Object.—The promotion of the study of the Deutero-Canonical Literature.

Membership.—Minimum subscription, 2s. per annum.

Publication.—*Deutero-Canonica*, quarterly.

EGYPT EXPLORATION FUND AND ARCHÆOLOGICAL SURVEY FUND,

37 GREAT RUSSELL STREET, W.C. (FOUNDED 1883.)

Officers.—*President* : Sir John Evans, K.C.B. *Secretary* : Miss Emily Paterson.

Meetings.—The Anniversary Meeting is held in November.

Membership.—Annual Subscription, 21s. to each Branch. The Branches are (1) the Exploration Fund ; (2) the Archæological Survey Fund ; and (3) the Græco-Roman Branch. Life Composition, £25.

Publications 1904–1905.—*Ehnasya*, by W. M. F. Petrie ; *El Amarna*, Part II., by N. de G. Davies ; *Oxyrhynchus Papyri*, Part IV., by B. P. Grenfell and A. S. Hunt ; *Archæological Report for 1903–4*, edited by F. Ll. Griffith, 2s. 6d. ; *Annual Report of General Meeting for 1903–4*, 1s.

SOCIETY FOR THE PROMOTION OF HELLENIC STUDIES,

22 ALBEMARLE STREET, W.

Officers.—*President*: Sir Richard Jebb, Litt.D., LL.D., M.P. *Hon. Secretary*: Geo. A. Macmillan, Litt.D., St Martin's Street, W.C. *Secretary*: John Baker-Penoyre, M.A.

Meetings.—Four times per annum, on Tuesdays, at 5 P.M., at the rooms of the Society of Antiquaries, Burlington House. The Annual Meeting is held in Midsummer.

Membership.—Entrance Fee, 42s.; Annual Subscription, 21s.; Life Composition, £15, 15s.

Publication.—*The Journal of Hellenic Studies.*

Contents of the Journal, Vol. XXIV., 1904, price £1, 10s.; free to Subscribers.

Bosanquet, R. C.—Some Late Minoan Vases Found in Greece.

Callander, T.—The Tarsian Orations of Dio Chrysostom.

Cronin, H. S.—First Report of a Journey in Pisidia, Lycaonia, and Pamphylia. Part III.

Daniel, A. M.—Damophon.

Dawkins R. M.—Mycenæan Vases at Torcello.

Edgar, C. C.—An Ionian Dedication to Isis.

Furtwängler, A.—A Counter-Protest.

Gardiner, E. N.—Phayllus and his Record Jump. Further Notes on the Greek Jump.

Gardner, P.—Vases Added to the Ashmolean Museum.

Hall, H. R.—Nitokris-Rhodopis.

Harrison, J. E.—Mystica Vannus Jacchi (continued).

Hasluck, F. W.—Unpublished Inscriptions from the Cyzicus Neighbourhood.

Hasluck, F. W., and A. E. Henderson.—On the Topography of Cyzicus.

Hogarth, D. G.—Three North Delta Nomes.

M'Dowall, K. A.—Some Greek Portraits. Two Heads Related to the Choiseul Gouffier Type. — The So-called Sardanapalus.

Marshall, F. H.—Antique Rings Pierced with Gold Nails.

Munro, J. A. R.—Some Observations on the Persian Wars:—(3) the Campaign of Plataea.

Oppé, A. P.—The Chasin at Delphi.

Ramsay, A. M.—The Early Christian Art of Isaura Nora.

Todd, M. N.—A New Fragment of the *Edictum Diocletiani*.

Waldstein, C.—The Bronze Statue from Cerigotto, and the Study of Style.

— Damophon.

BRITISH SCHOOL AT ATHENS.

(*English Office*: 22 ALBEMARLE STREET, W.)

Officers.—*Chairman of Managing Committee*: G. A. Macmillan, D.Litt. *Secretary*: J. ff. Baker-Penoyre, M.A.

Meetings.—The Annual Meeting takes place in October or November.

Membership.—Annual Subscription, from £1; Life Composition, £10.

List of Papers published in the "Annual of the British School at Athens," Vol. X., 1905, price 17s. nett; free to Subscribers.

Bosanquet, R. C.—Church of the Ruined Monastery of Daon-Mendeli.

Conway, R. S.—A Third Eteocretan Fragment.

Dawkins, R. M.—Notes from Kar pathos.

— and *C. T. Currelly*.—Excavations at Palaikastro.

— The Penrose Memorial Library.

- Evans, A. J.*—The Palace of Knossos.
Foster, E. S.—South-Western Laconia: Sites and Inscriptions.
Hall, H. R.—The Keftin Fresco in the Tomb of Senmut.
Harrison, J. E.—Note on the Mystica Vannus.
Hopkinson, J. H.—Note on the Fragment of a Painted Pinax from Praesos.
- Schäfer, J. H.*—Altaegyptische Pflüge, Jocke und andere Landwirthschaftliche Geräte.
Tod, M. N.—Teams of Ball-Players at Sparta.
 — A New Fragment of the Attic Tribute Lists.
Wace, A. J. B.—Grotesques and the Evil Eye.

THE BRITISH SCHOOL AT ROME.

(English Office: 22 ALBEMARLE STREET, W.)

Officers.—*Chairman of Managing Committee:* Prof. H. F. Pelham. *Secretary:* J. ff. Baker-Penoyre, M.A.

Meetings.—The Annual Meeting takes place in October or November.

Membership.—Annual Subscription, from £1; Life Composition, £10.

Publications.—*Papers of the School at Rome*, Vol. II. *Sixteenth-Century Drawings of Roman Buildings*, attributed to Andreas Corner (with 165 Collotype Plates), by T. Ashby, D.Litt., price 30s. nett; free to Subscribers.

LONDON AND MIDDLESEX ARCHÆOLOGICAL SOCIETY,

LONDON INSTITUTION, FINSBURY CIRCUS, E.C. (FOUNDED 1855.)

Officers.—*President:* Edwin Freshfield, LL.D., V.P.S.A. *Hon. Secretaries:* C. Welch, F.S.A., Guildhall Library, E.C.; E. H. Freshfield, M.A., F.S.A., 31 Old Jewry, E.C.

Meetings.—Monthly in Winter; Excursions in Summer. The Anniversary Meeting is held in January or February.

Membership.—Entrance Fee, 10s.; Annual Subscription, 21s.; Life Membership, Ten Guineas.

Publications.—*Transactions, etc.*

List of Papers read during Session 1904–1905.

- Barras, Rev. S.*—Account of the Plate and Records belonging to the Church of St Lawrence Jewry.
Barry, Rev. D., M.A. — Historical Account of Ightham Church.
Benham, Rev. Canon, D.D., F.S.A. — The Church of St Edmund the King and Martyr and its Past History.
Bennett, E. F., F.G.S. — Evolution of Monumental Stones.
 — Short Description of Ightham Moat House.
Bevan, F. A.—Short Account of Camel Way.
- Brook, Rev. J. M. S.*, M.A. — The Church of St Mary Woolnoth and its Monuments.
Craven, Rev. D., M.A. — Short Account of St Andrew's Church, Holborn.
Harrison, B., F.G.S. — Prehistoric Implements found in Oldbury Rock Shelters.
Hodson, Rev. Preb., D.D. — Architectural Remains from the Early English Period.
Ingram, Rev. Preb., D.D. — Short Account of the Church of St Margaret, Lothbury.

- Kershaw, S. W.*, M.A., F.S.A. — Descriptive Account of Lambeth Palace Library and Art Gallery.
- Milman, Rev. W. H.*, M.A. — History of Sion College.
- Mylne, Rev. R. S.*, M.A. — The History of Bridewell Palace Hospital and Prison or House of Correction.
- Rogers, Rev. E.*, M.A. — Short Account of St Sepulchre's Church, Holborn.
- Scott, J. B.* — Early History of the Coal Trade in London.
- Severn, M. D.* — Historical Associations of Gray's Inn.
- Shore, T. W.*, F.G.S. — Enfield Chase and its Archæological Associations.
- Short Account of Whitgift's Hospital.
- Short Account of Old Parish Church, Edmonton.
- Archæological Associations of Lombard Street.
- Stubbs, Rev. R. H. O.*, M.A. — Monken Hadley Church and its Archæological Remains.
- Taylor, F. A.* — Historical Account of Lambeth Palace.
- Terry, J.* — Description of the Roman Bath discovered under the Coal Exchange.
- Welch, C.*, F.S.A. — Livery Companies and their Halls.
- Short Account of Croydon Parish Church.
- Short Description of Ightham Court House.
- Origin and History of the Irish Society.
- The Church of St Bride, Fleet Street, and its Associations.
- Young, S.*, F.S.A. — Historical Account of the Barbers' Company and its Early Halls.
- The Bakers' Company and their Records.

MONUMENTAL BRASS SOCIETY.

Officers.—*President*: Rev. H. W. Macklin, M.A. *Hon. Secretary*: Mill Stephenson, B.A., F.S.A., 38 Ritherdon Road, Upper Tooting, S.W.

Meetings.—The Anniversary Meeting is held (in May) at 32 Sackville Street, W.

Membership.—Entrance Fee, 2s. 6d.; Annual Subscription, 10s.

Publications.—*Transactions*, Nos. XXXIII., XXXIV., 3s. each.
Portfolio, Vol. II., Parts 9 and 10, 2s. 6d. each.

THE NATIONAL TRUST

FOR PLACES OF HISTORIC INTEREST OR NATURAL BEAUTY.

25 VICTORIA STREET, WESTMINSTER, S.W.

Officers.—*President*: H.R.H. Princess Louise, Duchess of Argyll. *Chairman*: Sir Robert Hunter. *Secretary*: Nigel Bond, B.A.

Objects.—To acquire, by gift or purchase, places of Historic Interest or Natural Beauty, and to hold them in trust for the Nation.

Meeting.—The Annual Meeting is usually held in June or July.

Membership.—Annual Subscription, 10s. and upwards.

The properties owned by the Trust include the Old Clergy House at Alfriston, the Joiners' Hall at Salisbury, the Old Court House, Long Crendon, Duffield and Kanturk Castles, the Old Post Office at Tintagel, Eashing Bridges, Barras Head, land at Ide Hill, the Summit of the Kymin, Monmouth, also land in Wicken Fen, and on Derwentwater.

THE ROYAL NUMISMATIC SOCIETY,

22 ALBEMARLE STREET.

Officers.—*President*: Sir John Evans, K.C.B., D.C.L., F.R.S. *Hon. Secretary*: H. A. Grueber, F.S.A.

Meetings.—Third Thursday in each month at 6.30 P.M., from October to June. The Anniversary Meeting takes place in June.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.; Life Composition, £15, 15s.

List of Papers published in the "Numismatic Chronicle" quarterly; price to Members, 3s. 6d.; to non-Members, 5s. per part.

Evans, Sir J., K.C.B.—Rare and Unpublished Coins of Cacauius. Oct. 20.

—A Numismatic Question raised by Shakespeare. Dec. 15.

Grueber, H. A., F.S.A.—An Unpublished Half-Unicorn of James IV. of Scotland. Dec. 15.

—A Notice of William Hole or Holle, Cuneator to the Royal Mint temp. James I. Feb. 16.

Hewlett, L. M.—Anglo-Gallic Coins

from Henry II. to Edward I. Mar. 16.

Kenyon, R. L.—A Recent Find of Coins at Oswestry. Feb. 16.

Macdonald, G.—A Hoard of Edward Pennies found at Lochmaben. Jan. 19.

Walters, F. A.—The Coinage of Henry IV. Apr. 27 and May 18.

Wroth, W.—Greek Coins Acquired by the British Museum in 1903. Nov. 17.

PALESTINE EXPLORATION FUND,

38 CONDUIT STREET, HANOVER SQUARE W.

Patron.—H.M. THE KING.

Officers.—*President*: His Grace the Archbishop of Canterbury. *Chairman of the Executive Committee*: Maj.-Gen. Sir Charles W. Wilson, K.C.B., F.R.S. *Hon. Treasurer*: Walter Morrison, M.P. *Hon. Secretary*: J. D. Grace. *Acting Secretary*: George Armstrong.

Meetings.—The Executive Committee meet twice monthly, on the first and third Tuesdays; the General Committee meet annually in June or July.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d., £1, 1s., and upwards.

List of Papers contributed, and published in the Quarterly Statements for July and October 1904.

Report of Annual Meeting.

Baldensperger, P. G.—The Immovable East.

Conder, Col. C. R., R.E., D.C.L., LL.D.—Notes on Bible Geography.

—Remarks on the Gezer Tablet.

Cowley, A. E., M.A.—A Supposed Early Copy of the Samaritan Pentateuch.

Hanauer, Rev. J. E.—Animal Folklore.

—The Strange Finding-out of Moses his Tomb.

Johns, Rev. C. H. W., M.A.—Note on the Assyrian Tablet.

—Remarks on the Gezer Tablet.

Macalister, R. A. S., M.A., F.S.A.—Eighth and Ninth Report on the Excavation of Gezer.

Masterman, Dr E. W. G.—Observations on the Dead Sea Level.

Merrill, Dr S.—An Ancient Sewer at Jerusalem.

Peters, Rev. J. P., D.D.—Visit to Kefr Shi'jān, Janieh, and Neighbourhood.

- Petrie, Prof. F.*—Notes on Egyptian Objects from Gezer.
Pinches, T. G., LL.D.—Fragment of an Assyrian Tablet found at Gezer.
Sayce, Prof. A. H., LL.D.—Note on the Assyrian Tablet.
 — Inscribed Weights.
- Smith, Prof. G. A.*, D.D., LL.D.—The Roman Road between Kerak and Madeba.
Wilson, Maj.-Gen. Sir C. W., K.C.B., K.C.M.G., etc.—Excavations at Taanach.

List of Papers contributed to the Quarterly Statements, January and April 1905.

- Baldensperger, P. G.*—The Immovable East.
Conder, Col. C. R., R.E., D.C.L., LL.D.—Notes on Bible Geography.
 — Note on the Gezer Tablet.
 — Notes on Biblical Antiquities.
Dalzi, A.—Jerusalem: Meteorological Observations taken in Jerusalem.
Hanauer, Rev. J. E.—Palestinian Animal Folk-lore.
Jennings-Bramley, W. E.—The Bedouin of the Sinaitic Peninsula.
Macalister, R. A. S., M.A., F.S.A.—Tenth and Eleventh Report on the Excavation of Gezer.
 — The Crypts in St Anne's Church, Jerusalem.
 — Lamps recently found at St George's College, Jerusalem.
 — and *E. W. G. Masterman*, F.R.C.S.—Occasional Papers on the Modern Inhabitants of Palestine.
Masterman, Dr E. W. G.—Observations on the Dead Sea Level.
Offord, J.—Miscellaneous Notes.
- Sayce, Prof. A. H.*, LL.D.—The Cuneiform Tablet discovered at Lachish Paran on the Egyptian Monuments. Deuteronomy, i.
Schick, Dr C.—The Birthplace of St John, the Baptist.
Smith, Prof. G. A., D.D., LL.D.—The Roman Road between Kerak and Madeba.
 — Notes on Callirrhoe, Machaerus, Ataroth.
Tenz, J. M.—Notes on Millo and the City of David.
Wallis, W. C.—Notes on "Neolithic Altar" at Gezer.
Wilson, Maj.-Gen. Sir C. W., K.C.B., K.C.M.G., etc.—Centurial Inscriptions on the Syphon of the High-Level Aqueduct at Jerusalem.
 — Excavations of the German Palestine Exploration Society at Tell el-Metesellim in 1903.
 — The Camp of the Tenth Legion at Jerusalem and the City of Alia.
Wright, Prof. T. F.—Inscribed Lamps.
 — The Fund's Exhibit at St Louis.

THE ARCHÆOLOGICAL CYCLING CLUB,

17 GLYN MANSIONS, W.

Officers.—*President*: H. Plowman, F.S.A. *Hon. Secretary*: Miss Peat.

Objects.—The Study and Exploration of the Archæology of the Home Counties of England, etc.

Meetings.—The Anniversary Meeting takes place in January in each year. Between 30 and 40 meetings at various places are held during the Session, when short papers are read.

Membership.—Annual Subscription, 2s. 6d.

Publication.—*Annual Club Journal*, containing Report of the various places visited.



COUNTRY.

BERKSHIRE ARCHÆOLOGICAL AND ARCHITECTURAL SOCIETY,

THE ABBEY GATE, READING.

(Founded as the "Berkshire Ashmolean Society" in 1840. Reconstituted under its present title, 1871.)

Patron.—H.M. THE KING.

Officers.—*President*: C. E. Keyser, M.A., F.S.A. *Hon. Secretary*: Rev. P. H. Ditchfield, M.A., F.S.A., F.R.H.S., Barkham Rectory, Wokingham.

Meetings.—About six Ordinary Meetings are held in the year. The Anniversary Meeting usually takes place about May.

Membership.—Annual Subscription, 10s. 6d.; Life Composition, £5.

*Papers read during Session 1904–1905, those marked * being published in the "Journal," issued quarterly; (5s. per annum); edited by the Rev. P. H. Ditchfield.**Cheales, Rev. A.*—Israel in Egypt. Dec. 15.*Ditchfield, Rev. P. H., F.S.A.*—Inventory of Church Plate of Berks. Jan.*

—History of Maidenhead. July.*

Dormer, E. W.—An Old Corner of Bucks. Jan.*

—Old Southcote House. Apr.*

Ellis, W. P.—Churchwardens' Accounts of St Mary's, Thame. Oct.**Field, Rev. J. E.*—History of Wallingford. Sept. 22.

—Notes on the Abingdon Chronicle. Jan.*

—Notes on the Domesday of Berkshire. Oct.*

Henderson, Capt.—A Tour in Northern France. Mar. 1.*Hope, W. H. St J.*—Roman City of Silchester. July.**Keyser, C. E., F.S.A.*—The Churches of Sparsholt and Childrey. Feb. 8.*Monk, W. J.*—Description of Burford. July 21.*Peachey, G. C.*—Touching for the King's Evil. Apr. 6.

—Beating of the Bounds of Bright-Waltham. Oct.*

Petrocokino, A. T.—The Land of the Incas. Nov. 17.*Treacher, L., F.G.S.*—History of Ruscombe. June 16.

BRADFORD HISTORICAL AND ANTIQUARIAN SOCIETY,

BRADFORD CHURCH LITERARY INSTITUTE.

Officers.—*President*: Butler Wood. *Editorial Secretary*: C. A. Federer, 8 Hallfield Road. *Corresponding Secretary*: Thomas Howard, 16 Piccadilly.

Meetings.—On second Friday in the month, at 7.30 P.M. Annual Meeting is in September.

Membership.—No Entrance Fee; Annual Subscription, 7s.

Publication.—*Bradford Antiquary*, N.S., Part VIII., 2s. 6d.

[No Return.]

BRISTOL AND GLOUCESTERSHIRE ARCHÆOLOGICAL SOCIETY,

EASTGATE, GLOUCESTER. (FOUNDED 1876.)

Officers.—*President*: The Right Rev. Bishop Mitchinson, D.D., Master of Pembroke College, Oxford. *Hon. General Secretary*: Rev. Canon Bazeley, M.A., Matson Rectory, Gloucester.

Meetings.—Are held alternately at Gloucester and Bristol. There is a Spring General Meeting early in June and an Annual Summer Meeting in July.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.

THE ARCHITECTURAL AND ARCHÆOLOGICAL SOCIETY FOR THE COUNTY OF BUCKINGHAM,

THE MUSEUM, CHURCH STREET, AYLESBURY.

Officers.—*President*: The Earl of Rosebery, K.G. *Hon. Secretary*: John Parker, F.S.A., Desborough House, High Wycombe.

Objects.—(1) The diffusion of correct information on all subjects which fall within the cognisance of such a Society; (2) the collection and preservation of such materials as may serve to illustrate the history of the county.

Membership.—Annual Subscription, 10s.; no Entrance Fee; Life Composition, £5.

Meetings.—Dates fixed by notice. Ordinary Meetings held at 1.30 P.M.

Publication.—*The Records of Buckinghamshire*, published annually. Price to non-Members, 5s.

CAMBRIAN ARCHÆOLOGICAL ASSOCIATION.

Officers.—*President*: The Ven. Archdeacon Thomas, F.S.A., M.A. *Gen. Secretary*: Rev. Canon R. Trevor Owen, M.A., F.S.A., Bodelwyddan Vicarage, Rhuddlan, R.S.O.

Meetings.—The Anniversary Meeting was held on August 14, 1905, at Shrewsbury.

Membership.—Annual Subscription, 21s.

CAMBRIDGE ANTIQUARIAN MUSEUM,

MUSEUM OF ARCHÆOLOGY AND ETHNOLOGY, LITTLE
ST MARY'S LANE.

Officers.—*President*: Rev. W. G. Searle. *Hon. Secretary*: J. E. Foster, 10 Trinity Street.

Meetings.—The 65th Annual Meeting was held on May 22, 1905. Ordinary Meetings are held fortnightly, on Mondays, at 4.30 P.M. during term.

Membership.—No Entrance Fee; Annual Subscription, £1, 1s.; Life Composition, £10, 10s., or £5, 5s. after 15 years' subscriptions have been paid.

Publications.—*Proceedings*, No. XLIV., 7s. 6d.; *The Annals of Gonville and Caius College*, by John Caius, M.D., Master of the College, edited by John Venn, D.Sc., President of the College, 1904, price 15s.; *Luard Memorial Series*, Vol. III.; *Grace Book B*, Part 2, edited by M. Bateson, 1905, price 21s.; *The Churchwarden's Accounts of Great St Mary's Church, Cambridge, 1504-1635*, edited by J. E. Forster, 1905, price 21s.

List of Papers read during Session 1904–1905.

- Atkinson, Thomas Dinham.*—On a Plan of the King's Ditch, Cambridge, made in 1629. Mar. 6.
 — On Consecration Crosses in East Anglia. May 8.
Ball, Sir R. S.—On some Irish Antiquities. Jan. 26.
Bull, A.—On Stukeley's Plan of Crowlands Manor, Cottenham. Feb. 6.
Burkitt, F. C.—On Autographs in a Copy of Widmanstatter's Peshitta. May 22.
Catboig, H. C.—On Loggan's Prints of University Costumes in 1674. May 22.
Duckworth, W. L. H.—On Gable Decorations in Marken Island. Feb. 6.
Dyer, Rev. C. H.—On a Dutch Altar Cloth at Korapwell, Cambs. Feb. 20.
Evans, W. J.—On a Gold Hawking Whistle from Newmarket Heath. May 22.
Foster, J. E.—On Hobson's Connection with Hobson's Watercourse. May 8.
Gilbert, Rev. V. N.—On a Gold Snuff-box Presented to an Ancestor by Prince Frederic of Hesse. Feb. 20.
Haddon, Dr A. C.—String Tricks and Figures from many parts of the World. Feb. 20.
Haddon, L. B.—On the Dog Motive in Bornean Art. Mar. 6.
Hankin, E. H.—On Arabesque Design: its Origin and Application. Jan. 30.
Harding, A.—On Excavations at Arbury, Cambs. Oct. 31.
Hugel, Baron von.—On Recent Additions to the Museum of Archæology and Ethnology, Cambridge. Mar. 6.
Hughes, Prof. T. M'K.—On a Roman Pavement Discovered at Landwade, Cambs. Oct. 31.
 — On Bone Harpoons from the Alluvial Deposits of Kunda, Esthonia. Feb. 20.
Mortlock, J. G.—On a Merit Badge Presented to a Cambridge Volunteer in 1798. May 22.
Redfern, W. B.—On an Ancient Standard Measure Belonging to the Corporation of Cambridge. Nov. 14.
Searle, Rev. W. G.—On the Coins of the Britons. Feb. 6.
Stokes, Rev. H. P.—On the Office of University Chaplain. Nov. 14.
 — On Two Fourteenth-Century Esquire Bedels. May 8.
Wherry, G. E.—On a Village Tragedy Fifty Years Ago. May 22.

**CAMBRIDGESHIRE AND HUNTINGDONSHIRE
ARCHÆOLOGICAL SOCIETY,**

DEPÔT AT MR G. H. TYNDALL'S, MINSTER PLACE, ELY.

(FOUNDED 1900.)

Patron.—The Lord Bishop of Ely.

Officers.—*President:* The Rt. Hon. the Earl of Sandwich. *Editor and Hon. Secretary:* Rev. C. H. Evelyn-White, F.S.A., Rampton Rectory, Cambridge. *Treasurer:* Wm. Emery, Esq., St Neots. *Excursion Secretary:* Rev. A. J. Edmonds, M.A., Gt. Gransden.

Meetings.—General Meetings and Excursions in May and September. Annual Meeting in October.

Membership.—Annual Subscription, 10s. 6d.; Life Composition, £5.

Publication.—*Transactions*, Part I., 10s. 6d.; Part II., and Index, etc. to Vol. I., £1, 1s.

List of Papers read at the Meeting in May 1905.

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| <i>Evelyn-White, Rev. C. H.</i> —Little Gidding and the Ferrars. May. | <i>Forbes, Rev. H. W.</i> —Conington Church and Castle, Hunts. May. |
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THE CHESTER AND NORTH WALES ARCHÆOLOGICAL AND HISTORIC SOCIETY,

GROSVENOR MUSEUM, CHESTER.

Officers.—*President*: The Lord Bishop of Chester, D.D. *Gen. Secretary*: W. Conway, 8 Old Bank Buildings, Chester.

Meetings.—Third Tuesday in each month, from October to March inclusive, at 8 P.M. The Annual Meeting takes place in May.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.; Life Composition, £6, 6s.

Publication during 1905.—*Journal of the Society*, Vol. XI., New Series, 20s. to the public.

List of Papers read during Session 1904–1905.

Chester, Archdeacon of.—Chester Cathedral: The Jacobean Work. Oct. 17.

—The Churchwardens' Accounts of St Martin's, Chester, from 1683–1816. Nov. 15.

Irvine, W. F.—Church Discipline in the City of Chester during the Decade following the Restoration. Jan. 17.

Longbottom, F. W.—A Few Notes on the Coins in the Meols Collection,

Presented to the Society by T. L. Gleadowe, Esq. Feb. 21.

Newstead, R., A.L.S., F.E.S.—A Descriptive Account of Roman and other Objects Recovered from Various Sites in Chester and District, 1901–1904. Nov. 15.

—A Descriptive Account of some Early Relics in the Meols Collection of Antiquities. Feb. 21.

Whittaker, W. E. B.—The Glynnnes of Hawarden. Mar. 14.

CLIFTON ANTIQUARIAN CLUB.

Officers.—*President*: Prof. C. Lloyd Morgan, LL.D., F.R.S. *Secretary*: A. E. Hudd, F.S.A., 94 Pembroke Road, Clifton.

Meetings.—Members meet about four times each year, previously determined, at 8 P.M. The Anniversary Meeting takes place in January.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.

Publication.—*Proceedings*.

CUMBERLAND AND WESTMORLAND ANTIQUARIAN AND ARCHÆOLOGICAL SOCIETY,

TULLIE HOUSE, CARLISLE. (FOUNDED 1866.)

Officers.—*President*: The Right Rev. the Bishop of Barrow-in-Furness. *Hon. Secretaries*: Titus Wilson, Aynam Lodge, Kendal; J. F. Curwen, Horncop, Heversham, Milnthorpe. *Editor*: W. G. Collingwood, Coniston, R.S.O.

Meetings.—Three Meetings are held annually.

Membership.—Annual Subscription, 10s. 6d.; Life Composition, £10, 10s.

Publications.—*The Registers of the Parish of Askham*, by Miss Noble, 21s.; *Shappe in Bygone Days*, by the Rev. J. Whiteside, M.A., 10s. 6d.; *Hawkshead and its Neighbourhood*, by H. S. Cowper, F.S.A., 6d.; *Memoirs of Anthony Metcalf-Gibson of Ravenstonedale*, for private circulation; *The Curwen Pedigree*, by John F. Curwen, F.S.A., 42s.; *The Redmans of Levens and Harewood*, by W. Greenwood, F.S.A., 15s. 6d.; *The Flemings of Oxford*, edited by John Richard Magrath, D.D.

List of Papers read and communicated during 1904, and published in the "Transactions," issued annually to Members.

- Bailey, J. B.*—Roman Altars from Cumberland now at Rokeby, with a Note on the Cross Canonby Altar.
- Barrow-in-Furness, The Bishop of.*—Bishop Nicolson's Diary, Part V., with Index.
- On the Readers in the Chapelries of the Lake District.
- Colligan, Rev. J. H.*—Penraddock Presbyterian Meeting-House.
- Collingwood, W. G., M.A.*—On a Sculptured Trough in Tullie House Museum.
- Conder, E., jun., F.S.A.*—The Kirkby Lonsdale Parish Registers, 1538-1812.
- Cowper, H. S., F.S.A.*—Some Miscellaneous Finds.
- A Panel of Tapestry at High House, Hawkshead.
- Greenop, J.*—The Anatomy of the Earth, by Thomas Robinson, Rector of Ousby in Cumberland, 1694, with a Note on the Author.
- Haswell, F., M.D.*—On Armorial Stones at Yanwath and Barton Church.
- Heatherington, Rev. L.*—The Quaker Jesuite.
- Hope, L. E.*—Recent Finds, Mediæval and Romano-British, in and near Carlisle.
- Martindale, J. H.*—Cross Fragments at Arlecdon.
- Nicholson, F., F.Z.S.*—Kendal (Unitarian) Chapel and its Registers.
- Parker, C. A., M.D., F.S.A.Scot.*—The Earthwork on Infell, Ponsonby.
- Inglewood Forest.
- Penfold, H.*—The Capon Tree, Brampton, and its Memories.
- Ragg, Rev. F. W., M.A.*—Gospatrik's Charter.
- Thompson, W. N.*—A Sandwith Grindall Pedigree.
- Whiteside, Rev. J., M.A.*—Some Accounts of Anne, Countess of Pembroke.
- Whitwell, R. J., B.Litt., and W. N. Thompson.*—Three Petitions of Shap Abbey.

ESSEX ARCHÆOLOGICAL SOCIETY,

THE CASTLE, COLCHESTER. (FOUNDED 1852.)

Officers.—*President*: Henry Laver, F.S.A. *Secretary*: Rev. T. H. Curling, Bradwell Rectory, Braintree.

Meetings.—In May, July, and September. The Annual General Meeting takes place in April.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.; Life Composition, £5, 5s.

Publications.—*Transactions*, Vol. IX., Parts 3 and 4, 6s.; *Fines for Essex*, edited by R. G. G. Kirk, Parts IV. and V.

List of Papers read during Session 1904.

- Chancellor, F., F.R.I.B.A.*—Rochford Church and Hall.
- Great Stambridge Church.
- Canewdon Church.
- Ashington Church.
- Hawkwell Church.
- Fowler, R. C.*—Inventories of Essex Monasteries in 1536.
- Minet, W., F.S.A.*—The Capello at Rayne, 1486-1622.
- Waller, W. C., F.S.A.*—Chigwell: A Rental and some Place-Names.

HAMPSHIRE FIELD CLUB AND ARCHÆOLOGICAL SOCIETY,

5 SUSSEX PLACE, or 24 ABOVE BAR STREET, SOUTHAMPTON.

Officers.—*President*: W. F. G. Spranger. *Gen. Secretaries*: W. Dale, F.S.A. and F.G.S., Sussex Place, Southampton. *Editorial Secretaries*: Rev. G. W. Minns, LL.B., F.S.A.; Prof. F. J. C. Hearnshaw.

Meetings.—Field Meetings and Excursions are held during the Summer. The Anniversary Meeting is held in March.

Membership.—Limited to 250. Annual Subscription, 7s. 6d.

Publications.—*Papers and Proceedings*, 1904.

EAST HERTS ARCHÆOLOGICAL SOCIETY,

BISHOP'S STORTFORD. (FOUNDED 1898.)

Officers.—*President*: A. H. Smith, J.P., M.P. *Hon. Secretary*: W. B. Gerish, Ivy Lodge, Bishop's Stortford.

Meetings.—Council Meetings only are held, quarterly. Excursions are made during the summer months. The Annual Meeting takes place in April.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.

Publication.—*Transactions*, Vol. II., Part 2, 1s.

List of Papers read during Session 1904–1905.

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| <i>Andrews, R. T.</i> —Moated Sites in Reed Parish. July. | <i>Gerish, W. B.</i> —Albury Church. June. |
| — The Camp at Wilbury Hill. Aug. | — Patmore Hall, Albury. June. |
| <i>Andrews, W. F.</i> —The Monastery at Buckland. July. | — Buckland Church. July. |
| <i>Aylott, G.</i> —Norton Church. Aug. | <i>Minet, W.</i> , F.S.A.—Hadham Hall. June. |
| <i>Denman, Rev. the Hon. W. L.</i> —William Church. Aug. | — Little Hadham Church. June. |
| <i>Gerish, W. B.</i> —Memoir of Dr Charles Wade, the Sawbridgeworth Antiquary. Apr. | <i>Morris, Mrs J. E.</i> —Hyde Hall, Sawbridgeworth, and its Owners. Apr. |
| — The Mayers and their Song, or some Account of the First of May, and its Observance in Hertfordshire. Apr. | <i>Pollard, H. P.</i> —Reed Church. July. |
| | — Letchworth Hall. Aug. |
| | <i>Pollard, H. T.</i> —Letchworth Church. Aug. |

KENT ARCHÆOLOGICAL SOCIETY,

THE MUSEUM, ST FAITH STREET, MAIDSTONE. (FOUNDED 1857.)

Officers.—*President*: Lord Northbourne. *Hon. Secretary*: J. Evans, Abbots Barton, Canterbury.

Meeting.—The Annual Meeting takes place in July.

Membership.—Entrance Fee, 10s.; Annual Subscription, 10s.; Life Composition, £6.

Publication.—*Archæologia Cantiana*.

LANCASHIRE AND CHESHIRE ANTIQUARIAN SOCIETY,

CHETHAM COLLEGE, MANCHESTER. (FOUNDED 1883.)

Officers.—*President*: G. Pearson. *Hon. Secretary*: Geo. C. Yates, F.S.A., Urmston, Manchester.

Meetings.—Second Friday in each month, from October to April, in Chetham College, at 6.15 P.M. The Anniversary Meeting takes place last Friday in January.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.; Life Composition, £7, 7s.

List of Papers read during Session 1904–1905.

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| <i>Andrew, S.</i> —Oldham Clock Makers. Jan. 8. | <i>Harrison, W.</i> —Manchester Early Post Roads. Dec. 10. |
| <i>Aston, W.</i> , F.R.I.B.A.—Altrincham and District in 1825. | <i>May, T.</i> —Notes on a Bronze Age Barrow at Kenyon Hall, Warwick. Jan. 29. |
| <i>Axon, W. E. A.</i> , LL.D.—Manchester in Olden Times. May 11. | —The Roman Oppidium at Wilderspool. Oct. 8. |
| <i>Carr, Dr T.</i> —Armour as Illustrated by English Brasses. Dec. 10. | <i>Raeder, C.</i> —Early History of the Manchester Post Office. Dec. 10. |
| <i>Crofton, H. T.</i> —Extracts Relating to Deansgate, Manchester, from the Newton Manor Court Rolls, 1530–1691. Apr. 8. | <i>Sutcliffe, W. H.</i> , F.G.S.—Flint Implements from the Lancashire Neolithic Floor. Jan. 8. |
| —The Tithe Corn Book for Manchester, Salford, and Hulme in 1584. Apr. 8. | <i>Sutton, C. W.</i> , M.A.—The Diary of Bishop Wilkinson of Carlisle. Oct. 14. |
| <i>Dawkins, Dr B.</i> , F.R.S.—Prehistoric Manchester. Apr. 11. | <i>Taylor, H.</i> , F.S.A.—The Ancient Crosses and Holy Wells of Lancashire. The Hundred of Salford. Nov. 11. |
| <i>Guppy, H.</i> , M.A.—Block Prints and Block Books, the Precursors of the Type Printed Book. Feb. 19. | |

THORESBY SOCIETY, LEEDS,

10 PARK STREET. (FOUNDED 1889.)

Officers.—*President*: Vacant. *Secretaries*: G. D. Lumb, 65 Albion Street; B. P. Scattergood, M.A., 7 Cookridge Street, Leeds.

Meetings.—Ordinary Meetings at irregular intervals; the Annual Meeting is held in February.

Membership.—Annual Subscription, 10s. 6d.; the Life Subscription is £5, 5s.

Publications.—The final parts of the *Kirkstall Abbey Coucher Book*, *Calverley Charters*, and 4th Volume of *Miscellanea*; the first part of the 5th Volume of *Leeds Parish Church Registers*, 1695–1722.

LEICESTERSHIRE ARCHITECTURAL AND ARCHÆOLOGICAL SOCIETY,

OLD TOWN HALL LIBRARY, ST MARTIN'S, LEICESTER.

(FOUNDED 1855.)

Officers.—*Patrons*: The Duke of Rutland, K.G., G.C.B.; The Lord Bishop of Peterborough, D.D. *Hon. Secretaries*: (Financial) Col. G. C. Bellairs, V.D., J.P., Highfield, Southbourne-on-Sea, Christ Church, Hants; (Corresponding) Major W. J. Freer, V.D., F.S.A., 10 New Street, Leicester; (Editorial), Rev. S. T. Winckley, M.A., Houghton-on-the-Hill Rectory, Leicester.

Meetings.—On the last Mondays in March, May, July, Sept., and Nov., at 3 P.M. The Anniversary Meeting takes place the last Monday in January. Jubilee Meeting 7th June 1905.

Membership.—Annual Subscription, 10s.

Publications.—*Transactions of Associated Societies*, 1904; *Anglo-Saxon Remains found at North Luffenham prior to 1900*, by V. B. Crowther-Baynon, F.S.A.; *Transcript and Translation of Signet Bill conferring a Baronetcy upon Richard Halford, Esq., of Westow, Leicestershire*, 16th December 1641.

List of Papers read during 1904.

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| <p><i>Crowther-Baynon, V. B., F.S.A.</i> — Anglo-Saxon Remains Found at North Luffenham prior to 1900. Mar.</p> <p><i>Perkins-Perk, S., V.B., R.I.B.A.</i>—An Account of the Society's Visit to</p> | <p>Kirby Hall and Rockingham Castle on June 24th, 1904. Nov.</p> <p><i>Traylen, J. C., F.R.I.B.A.</i>—An Account of this Society's Visit to Stamford and Burghley, on 23rd June 1904. Nov.</p> |
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THE ARCHITECTURAL AND ARCHÆOLOGICAL SOCIETY OF THE COUNTIES OF LINCOLN AND NOTTINGHAM,

5 EASTGATE, LINCOLN.

Officers.—*President*: The Lord Bishop of Lincoln. *Hon. Secretary*: Rev. A. F. Sutton, Brant Broughton Rectory, Newark-on-Trent.

Meetings.—Committee, Second Friday in alternate months. The Anniversary Meeting is held in January.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.; Life Composition, £10.

Publication.—*The Annual Volume.*

[*No Return.*]

NEWCASTLE-UPON-TYNE SOCIETY OF ANTIQUARIES,

THE CASTLE, NEWCASTLE-UPON-TYNE. (FOUNDED 1813.)

Officers.—*Patron and President*: His Grace the Duke of Northumberland, K.G. *Secretaries*: Robert Blair, F.S.A., South Shields; R. Oliver Heslop, F.S.A., Newcastle. *Editor*: R. Blair.

Meetings.—Last Wednesday in every month at 7 P.M. The Anniversary Meeting takes place in January (at 1 P.M.).

Membership.—No Entrance Fee; Annual Subscription, 21s.; Life Composition, £13, 13s.

Publication.—*History of Jesmond*, by F. W. Dendy (being *Archæologia Aeliana*, Third Series, Vol. I.), 21s.

List of Papers read from 1st July 1904 to 30th June 1905, and published in "Archæologia Aeliana" (A.), or in "Proceedings" (P.), for Members only.

- Allison, T. M., M.D.*—On a "Crusie" from Orkney. (P.)
 — On the Flail and its Time. (A. and P.)
 — On a Norwegian Flail and a Corn Comb. (P.)
 — On an Old Northumbrian Flail. (P.)
Blair, C. H.—On a Stone Slab Bearing the Royal Arms from Newgate, Newcastle. (P.)
Blair, R.—On some Newly Discovered Roman Centurial Stones near *Aesica*, on the Roman Wall in Northumberland. (P.)
Charlton, O. J.—On Old Deeds Relating to Newcastle. (P.)
Clephan, R. C., F.S.A.—On his Collection of Ancient Armour, etc. (P.)
Collingwood, W. G., F.S.A.—On Bewcastle Cross. (P.)
Craster, H. H. E.—On the Marquis of Waterford's MSS. at Ford Castle, Northumberland. (P.)
 — On some Orde Deeds. (P.)
Dendy, F. W.—On Purchasers at Stagshaw Bank Fair in 1289. (A.)
 — On the Killingworths of Killingworth, Northumberland. (A.)
Gibson, J. P.—On Ancient British Graves Discovered near Dilston, Northumberland. (A.)
Haswell, F. R. N.—On an Old Missal. (P.)
 — On an Autograph of Henry Bradshaw, a Relative of the Regicide. (P.)
Heslop, R. O., M.A., F.S.A.—On a Roman Centurial Stone Found at West Denton near Newcastle. (P.)
Hodgson, J. C., F.S.A.—On a Silver Monteith of 1696. (P.)
 — On the late W. Woodman's Collection of Northumbrian Proverbs. (P.)
 — On a Grant of Arms to the Moises Family, with a Pedigree. (P.)
Hughes, Prof. T. M.K.—On Discoveries of Ancient Graves near Bambrugh Castle, Northumberland. (P.)
Phillips, M., F.S.A.—On Straw Splitters Used in Hertfordshire. (P.)
 — On John Lomax, ejected from Wooler, Northumberland, in 1660, with some Account of his Family. (A.)
Stevenson, A. L.—On a Camp or Fort at Holywell near Durham. (P.)
Welford, R.—On an Old Deed relating to Newcastle. (P.)
 — On Early Newcastle Printing, etc. (P.)
Wooler, E.—On the Scots Dyke. (P.)

NORFOLK AND NORWICH ARCHÆOLOGICAL SOCIETY,

NORFOLK AND NORWICH LIBRARY, GUILDHALL HILL, NORWICH.

Officers.—*President*: General W. E. G. L. Bulwer, C.B. *Secretary*: L. G. Belingbroke, Ferryside, Norwich.

Meeting.—The Anniversary Meeting is held in May.

Membership.—Annual Subscription, 7s. 6d.; no Entrance Fee.

Publications.—*Norfolk Archaeology*, Vol. XV., Part 3, 7s. 6d.; *Depositions taken before the Mayor and Aldermen of Norwich, 1549–1567*; and *Extracts from the Court Books of the City of Norwich, 1666–1688*, 7s. 6d., edited by Walter Rye.

ARCHITECTURAL AND ARCHÆOLOGICAL SOCIETY FOR THE ARCHDEACONRIES OF NORTHAMPTON AND OAKHAM,

1A SHEEP STREET, NORTHAMPTON. (FOUNDED 1844.)

Officers.—*President*: Lord Bishop of Peterborough. *Hon. Secretaries*: C. A. Markham, F.S.A., The Garth, Dattington Avenue, Northampton.

Meetings.—The Anniversary Meeting takes place on the second Monday in December. Ordinary Meetings are held at periods fixed by the Committee.

Membership.—No Entrance Fee ; Annual Subscription, 10s. ; Life Composition, £10.

List of Papers read during Session 1904–1905, and published in the “Proceedings of Associated Architectural Societies.”

Brereton, R. P., M.A.—Notes on some Unrecorded Saxon Work in and near Northamptonshire. Dec. 14.
Markham, C. A., F.S.A.—The Manor House, Yardley, Hastings. Dec. 14.

Sanders, Rev. Canon, LL.D.—The History and Architecture of St Martin's Church, Leicester. Feb. 23.

OXFORDSHIRE ARCHÆOLOGICAL SOCIETY,

18 GEORGE STREET, OXFORD, (FOUNDED 1852.)

Officers.—*President*: Right Hon. Lord North. *Secretary*: Rev. G. E. Barnes, Somerton Rectory, Banbury.

Meeting.—The Anniversary Meeting takes place in June.

Membership.—Annual Subscription, 5s. ; Life Composition, £2, 2s.

[No Return.]

OXFORD ARCHITECTURAL AND HISTORICAL SOCIETY,

ASHMOLEAN MUSEUM. (FOUNDED 1839.)

Officers.—*President*: J. L. Myres, M.A., F.S.A., F.R.G.S. *Hon. Secretaries*: J. B. Oldham, Christ Church ; F. Streatfield, University College.

Meetings.—Wednesdays, three times in Lent, at 8.15 P.M. Excursions in the Summer. † The Anniversary Meeting takes place in June.

Excursions.—Three or four times each Term, to places of interest in Oxford and the neighbourhood.

Membership.—Entrance Fee, 5s. ; Annual Subscription, 5s.

Official Minutes printed in the “Quarterly Journal of Archæology for the Counties of Berks, Bucks, and Oxon,” price 5s. annually (Parker).

[No Return.]

OXFORD HISTORICAL SOCIETY.

(FOUNDED 1884.)

Officers.—*President*: the Rev. the Provost of Queen's College. *Treasurer*: R. S. Rait, Fellow of New College.

Membership.—Annual Subscription, 21s.

OXFORD UNIVERSITY ANTIQUARIAN SOCIETY,
ASHMOLEAN MUSEUM. (FOUNDED MAY 1893.)

Officers.—*President*: Viscount Dillon, Pres. S.A. *Vice-President*: Rev. W. E. Scott-Hall, F.S.A. Scot., St Mary Hall, Oxford.

Meetings.—During Term only. The Annual Meeting takes place at the end of the Summer Term.

Membership.—Annual Subscription, 5s.

POWYS-LAND CLUB,
THE MUSEUM, WELSHPOOL.

Officers.—*President*: The Rt. Hon. the Earl of Powis. *Hon. Secretary and Curator*: T. Simpson Jones, Gungrog Hall.

Meeting.—The Annual Meeting is held in October.

Membership.—No Entrance Fee; Annual Subscription, £1, 1s.

List of Principal Papers published in Montgomeryshire Collections,
Vol. XXXIII., Part 2, December 1904.

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| <p><i>Davies, Mrs A.</i>—History of the Parish of Carno.</p> <p><i>Edwards, Rev. E., M.A.</i>—Trefeglwys Registers.</p> | <p><i>Jones, T. S.</i>—Welshpool Parish Book (Pool Middle), 1765-84.</p> <p><i>Thomas, Ven. - Arch.</i>—Llandrinio, 1809-1846.</p> <p>—The Rowley Morris Deeds.</p> |
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ST ALBANS AND HERTFORDSHIRE ARCHITECTURAL AND ARCHÆOLOGICAL SOCIETY,

**THE HERTFORDSHIRE COUNTY MUSEUM, HATFIELD ROAD,
 ST ALBANS. (FOUNDED 1845.)**

Officers.—*President*: The Very Rev. the Dean of St Albans. *Librarian*: H. R. Wilton Hall.

Meetings.—Ordinary Meetings at irregular intervals, averaging once in two months. The Anniversary Meeting is held in April.

Membership.—Annual Subscription, 10s. 6d.; Life Composition, £8, 8s.

Publications for 1903-1904.—*Transactions; Report on the Monuments of the Gape Family*, by J. Vacy Lyle, with Index by H. R. Wilton Hall, price 2s. 6d.

WM. SALT ARCHÆOLOGICAL SOCIETY, STAFFORD,
2 BANK PASSAGE. (FOUNDED 1879.)

Officers.—*President*: Rt. Hon. Lord Wrottesley. *Hon. Secretary*: Maj.-Gen. Hon. Geo. Wrottesley, 75 Cadogan Gardens, London, W. *Assistant-Secretary*: J. W. Bradley, B.A., William Salt Library, Stafford.

Meeting.—The Anniversary Meeting takes place in November.

Membership.—Annual Subscription, 21s.

Publication.—*Transactions*, Vol. VII., New Series.

SHROPSHIRE ARCHÆOLOGICAL AND NATURAL HISTORY SOCIETY.

Officers.—*President*: Rt. Hon. Lord Barnard. *Secretary*: Francis Goynes, Shrewsbury.

Meetings.—Council Meetings are held on the second Wednesday in each month. The Annual General Meeting is held early in the year. An Excursion is made in Summer.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publication during 1904.—*Transactions*, Vol. IV., 3rd Series.

SOMERSETSHIRE ARCHÆOLOGICAL AND NATURAL HISTORY SOCIETY,

THE CASTLE, TAUNTON. (FOUNDED 1849.)

Officers.—*President*: Lt.-Col. J. R. Bramble, F.S.A. *Hon. General Secretaries*: Rev. F. W. Weaver, F.S.A., Milton Clevedon, Evercreech, Bath; and C. Tite, Rosemount, Taunton. *Assist.-Secretary, Curator, and Librarian*: H. St G. Gray, Taunton Castle.

Meetings.—Committee meet on the Second Friday in each month at 2.45 P.M. The Annual Meeting and Excursions are held in July, at various centres in the County.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.

Publication.—*Proceedings* for 1904, Vol. L., 10s. 6d. (to Non-members).

*List of Papers contributed in 1904, and published in the
"Proceedings."*

Allen, F. J., M.D.—The Classification of the Somerset Church Towers.

Bates, Rev. E. H., M.A.—Pen-Selwood.

—Stavordale Priory.

Bulleid, A., F.S.A., and H. St G. Gray.—The Glastonbury Lake Village: An Account of the Excavations undertaken during 1904.

Gray, H. St G.—A Copper Celt from Staple Fitzpaine.

—Excavations at Small Down Camp near Evercreech, 1904.

—Samian Pottery and Potter's Marks in Taunton Castle Museum.

M'Murtrie, J., F.G.S.—Notes on a Further Exploration of the Fosse Road at Radstock.

Winwood, Rev. H. H., F.G.S.—Excavations at Lansdown.

SUFFOLK INSTITUTE OF ARCHÆOLOGY AND NATURAL HISTORY,

MOYSES HALL, BURY ST EDMUNDS. (FOUNDED 1848.)

Officers.—*President*: Sir W. B. Gurdon, M.P., K.C.M.G. *Hon. Secretary*: Rev. Canon Warren, F.S.A., Bardwell Rectory, Bury St Edmunds.

Meeting.—The Anniversary Meeting takes place in April or May.

Membership.—Annual Subscription, 10s.

Publications, 1904.—*Proceedings*, Vol. XII., Part 1, 5s. to Members; *Suffolk-Ship-money Returns, 1639-40*, by V.B. Redstone, price 5s. 6d.

SURREY ARCHÆOLOGICAL SOCIETY,

CASTLE ARCH, GUILDFORD.

Officers.—*President*: The Right Hon. Viscount Midleton. *Hon. Secretary*:
Montague S. Giuseppe, F.S.A., 23 Kenilworth Avenue, Wimbledon.

Meetings.—Annual General Meeting in March. Annual Excursion in July.
Ordinary Meetings held when convenient.

Membership.—Entrance Fee, 10s. ; Annual Subscription, 10s. ; Life Com-
position, £8.

Publication.—*Waverley Abbey*, by Harold Brakspear, F.S.A., price 10s. 6d.

SURTEES SOCIETY.

Officers.—*Secretary*: William Brown.

Objects.—The publication of inedited MSS., illustrative of the intellectual,
moral, religious, and social conditions of those parts of England which
constituted the ancient kingdom of Northallerton.

Membership.—Annual Subscription, £1, 1s.

SUSSEX ARCHÆOLOGICAL SOCIETY,

LEWES CASTLE, LEWES.

Officers.—*President*: Marquess of Abergavenny, K.G. *Hon. Secretary*:
H. Michell Whitley, The Castle, Lewes.

Meetings.—The Annual General Meeting is held in March, and an Autumn
Meeting is also held. District Meetings are occasionally held.

Membership.—Entrance Fee, 10s. ; Annual Subscription, 10s. ; Life
Composition, £8.

Publication.—*Sussex Archaeological Collections*.

[No Return.]

SUSSEX RECORD SOCIETY,

LEWES CASTLE, LEWES.

Officers.—*President*: Duke of Norfolk, E.M. *Hon. Secretary*: P. S. Godman,
Muntham, Horsham.

Meetings.—The Annual General Meeting is held in March.

Membership.—Annual Subscription, £1, 1s. ; Life Composition,
Ten Guineas ; no Entry Fee.

[No Return.]

THE THOROTON SOCIETY,
ROYAL INSURANCE BUILDINGS, NOTTINGHAM.

Officers.—*President*: The Duke of Portland, K.G. *Joint Hon. Secretaries*: The Rev. J. Standish, B.A., Scarrington Vicarage, Nottingham; G. Fellows, Esq., Beeston Fields, Nottingham.

Objects.—To promote, generally, the study of the History and Antiquities of the Shire. To print ancient records relative to the County, and an annual illustrated volume of *Transactions*, and to hold Local Meetings and Excursions to places of interest within the County.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.; Life Composition, £6, 6s.

Meetings.—The Annual Meeting is usually held in March.

Publication.—*Transactions*, Vol. VII.

**WILTSHIRE ARCHÆOLOGICAL AND NATURAL
HISTORY SOCIETY,**

THE MUSEUM, DEVIZES. (FOUNDED 1853.)

Officers.—*President*: The Marquis of Bath. *Hon. Secretaries*: Rev. E. H. Goddard, Clyffe Vicarage, Wootton Bassett; E. O. Plydell Bouverie, Market Lavington, Wilts.

Meetings.—Quarterly. The Annual Meeting takes place generally in July.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, 10s. 6d.; Life Composition, £10, 10s.

Publications.—*Wiltshire Archæological and Natural History Magazine*, price 5s. 6d.; free to Members; *Wiltshire Inquisitiones Post-Mortem*.

*List of Papers read at Meeting at Warminster in 1904; that with *
has been published.*

Goddard, Rev. E. H.—The Bronze Age and late Celtic Remains in Wilts.

Knubley, Rev. E. P.—The Birds of the District.

Lawrence, Rev. Dr.—King Alfred and his Connection with the District.

Lucas, J.—The Flowers of the District.

Maclean, Rev. D.—The Warminster Plot to Kill James II.

Penny, Rev. R. G.—Supposed Influences of the Eastern Church on English Ecclesiastical Architecture, with Special Reference to the Solid Screen in Stockton Church.*

Powell, J. U., and Rev. C. E. B. Barnwell.—The Foundation of Christianity in Wessex.

**WORCESTER DIOCESAN ARCHITECTURAL AND
ARCHÆOLOGICAL SOCIETY,**

THE SHIRE HALL. (FOUNDED 1854.)

Officers.—*President*: Rt. Hon. Earl Beauchamp, K.C.M.G. *Hon. Secretaries*: Rev. G. H. Poole, Himbleton Vicarage, Droitwich; A. Whinfield, Severn Grange, Worcester.

Meetings.—Meetings are held at variable times.

Membership.—No Entrance Fee; Annual Subscription, 10s.; Life Composition, £5.

Publication.—*The Transactions of the Society*, published annually with Transactions of similar Societies (Williamson, Lincoln), price 5s.

*List of Papers read during 1904, those marked * have been published.*

Berkeley, Mrs.—About Books that Taught and Amused the Children of Olden Days. Jan. 26.*

Congreve, H. and M.—Notes on some of the Romanesque Churches of France. Apr. 26.*

Reiss, Rev. F. A.—History of Rock. Feb. 29.

Willis-Bund, J. W., F.S.A.—The Life of the Rev. James Wilmot, D.D., Vicar of Barton-on-the-Heath and Alcester, Warwickshire, Fellow of Trinity College, Oxford. Mar. 28.*

YORKSHIRE ARCHÆOLOGICAL SOCIETY,

THE OLD MEDICAL SCHOOL, 10 PARK STREET, LEEDS.

(FOUNDED 1863.)

Officers.—*President*: Sir T. Brooke, Bart., F.S.A. *Hon. Secretary*: W. Brown, F.S.A., Whitehouse, Northallerton.

Meeting.—Council Meetings four times a year. The Anniversary Meeting is held in January.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.; Composition, £7, 7s.

Publication.—*Journal*, Parts LXIX. and LXX., 5s. 6d. each; and *Programmes of Meetings*.

SCOTLAND.

SOCIETY OF ANTIQUARIES OF SCOTLAND,

NATIONAL MUSEUM OF ANTIQUITIES, QUEEN STREET, EDINBURGH. (FOUNDED 1780.)

Officers.—*President*: The Rt. Hon. Sir Herbert Maxwell, Bart., M.P. *Hon. Secretaries*: D. Christison, M.D., 20 Magdala Crescent, Edinburgh, and The Hon. John Abercromby, 62 Palmerston Place, Edinburgh.

Meetings.—Second Monday in each month, from December to March inclusive, at 8 p.m., and in April and May at 4 p.m. The Anniversary Meeting takes place on St Andrew's Day, November 30.

Membership.—Entrance Fee, 42s.; Annual Subscription, 21s.

Publication.—*Proceedings*, Vol. XXXVIII.

*Papers read during Session 1904-1905, and published in the
"Proceedings," issued Annually to the Fellows.*

- Abercromby, Hon. J.**—Report on Excavations at Fethaland and Trowie Knowe, Shetland; and of the Exploration of a Cairn on Dumglow, one of the Cleish Hills, Kinross-shire.
- On the Ornament of the Beaker Class of Sepulchral Pottery.
- Anderson, J., LL.D.**—Description of Sepulchral Urns found on the Estate of Poltalloch, Argyllshire, and exhibited by Col. Malcolm, C.B., of Poltalloch.
- Description of a Hoard of Bronze Articles, including Portions of Four Roman Patere, Four Bowls, a Beaded Torc or Neck-Ring, Two Small Spiral Rings, Two Harp-Shaped Fibulæ (Enamelled), and an S-shaped Fibula in Form of a Sea-Horse (also Finely Enamelled), found in a Moss on Lamberton Moor, Berwickshire, Sixty Years Ago.
- Description of the Relics found in the Forts of Ardifuvar, Duntroon, Drumm-an-duin, and Dunadd, on the Estate of Poltalloch, Argyll.
- Description of the Relics found in the Excavation of the Roman Fort of Rough Castle, on the Antonine Wall, near Falkirk.
- Bryce, Dr T. H.**—Notice of a Skull from a Cist, with a Beaker Urn, at Acharole, Caithness.
- Buchan, W.**—Notes on a Bronze Caldron found at Hatton Knowe, in the County of Peebles.
- Buchanan, M.**—Report on the Excavation of the Roman Fort of Rough Castle, on the Antonine Wall, near Falkirk. With Plans.
- Callander, J. G.**—Notice of Two Cinerary Urns and a Pendant of Slate found at Seggiecrook, Parish of Kennethmont, Aberdeenshire.
- Christison, Dr D.**—Notes on Kirkyard Monuments in the Scottish Lowlands.
- Report on the Excavations by the Society of the Forts of Ardifuvar, Duntroon, Drumm-an-duin, and Dunadd, on the Estate of Poltalloch, Argyll.
- History of the Roman Fort at Rough Castle, on the Antonine Wall, near Falkirk.
- Coles, F. R.**—Report—(1) of the Excavation of Two Stone Circles in Kincardineshire; and (2) on Stone Circles Surveyed in Aberdeenshire, with Measured Plans and Drawings, obtained under the Gunning Fellowship.
- Coles, F. R.**—Notice of the Exploration of the Remains of a Cairn of the Bronze Age, at Gourlaw, Midlothian.
- Curle, A. O.**—Some Notes on the Account Book of Dame Magdalen Nicholson, Widow of Sir Gilbert Elliot, First Baronet of Stoba.
- Description of the Fortifications on Ruberslaw, Roxburghshire, and Notices of Roman Remains found there.
- Notes on a Hog-Backed, and Two Coped, Monuments in the Churchyard of Nisbet, Roxburghshire.
- Dowden, Rt. Rev. J., D.D., LL.D.**—Observations on Scottish Place-Names, as they Appear in the Accounts of the Holy Land Tax, Collected by Boiamund in the Years 1274-76.
- Fleming, J. S.**—Regent Mar's Ludging, Stirling.
- Hutcheson, A.**—Notice of the Discovery of Stone Coffins at Auchterhouse, Forfarshire.
- Notice of the Discovery of Nine Earthenware Jugs Built into the Walls of the Mansion-House of Invernethy, Perthshire.
- Laidlaw, W.**—Sculptured and Inscribed Stones in Jedburgh and Vicinity.
- Macdonald, G., LL.D.**—Report on the Excavation of the Roman Station at Barhill.
- Note on a Hoard of Silver Coins, chiefly of Edwards I. and II., found in an Earthenware Jar at Lochmaben.
- Mackenzie, Rev. J. B.**—Antiquities and Old Customs in St Kilda, Compiled from Notes made by Rev. Neil Mackenzie, Minister of St Kilda, 1829-48.
- Mackenzie, W. C.**—Notice of the Pigmies' Isle, at the Butt of Lewis.
- Mann, L. M'L.**—Notice of a Bronze Age Cemetery, with Urns, at Newlands, Langside.
- Mitchell, Sir A., K.C.B.**—Supplementary List of Travels, Tours, etc., in Scotland.
- Park, A.**—Excavation of the Roman Station at Barhill.

Paul, Rev. R.—Notes on Tents' Moor, Fife, and on Ancient Graves at Belhaven, near Dunbar.

Primrose, Rev. J.—Notes on the Old Blackfriars of Glasgow.

Reid, A.—Colinton Church and Churchyard.

Ross, T.—Notes on the Architectural Features of the Roman Station at Barhill.

Sinclair, J.—On the Holyrood Fore-Yett of James IV.

Somerville, Rev. J. E.—The Great Dolmen of Saumur, France.

GLASGOW ARCHÆOLOGICAL SOCIETY,

207 BATH STREET. (FOUNDED 1856.)

Officers.—*President*: J. D. G. Dalrymple, F.S.A.Lond. and Scot. *Secretaries*: W. G. Black, F.S.A.Scot., 88 West Regent Street; A. H. Charteris, M.A., LL.B., 79 West Regent Street.

Meetings.—On the third Thursday in each month, from November to April inclusive, at 8 P.M. The Annual General Meeting takes place on the third Thursday in November.

Membership.—No Entrance Fee; Annual Subscription, 12s. 6d.; Life Composition, £12, 12s.

Publication, 1905.—*Transactions*, New Series, Vol. V., Part 1, price 6s.

List of Papers read during Session 1904–1905.

Chalmers, J., I.A.—An Investigation into the Original Plan of the Church of Dunning, with Notes of some of the Original Stones found in the Walls. Jan. 19.

Fleming, J. S., F.S.A.Scot.—Newark Castle and its Owners. Feb. 23.

Honeyman, J., LL.D., R.S.A.—On certain Peculiarities in the Architecture of Iona. Mar. 16.

Lugton, T.—The Saracen's Head Inn, Glasgow. Jan. 19.

Medley, Prof.—The Setting of the Miracle Plays. Feb. 23.

Neilson, G., LL.D.—Some Old Ascog Documents belonging to Thomas Russell, Esq. Mar. 16.

Price, R.—A Note on Jacobite Drinking Glasses and Clubs. Nov. 17.

Rait, R. S., M.A.—Some Notes on the History of University Education in Scotland. Dec. 15.

Thomson, Rev. P., D.D.—Historical Notes on the Parish and Church of Dunning. Jan. 19.

HAWICK ARCHÆOLOGICAL SOCIETY,

BUCCLEUCH MEMORIAL BUILDINGS, BRIDGE STREET, HAWICK.

(FOUNDED 1856.)

Officers.—*President*: William Scott. *Secretary*: J. J. Vernon, 81 High Street.

Meetings.—Third Tuesday in each month, except June and July, at 8 P.M. The Anniversary Meeting takes place in January.

Membership.—Annual Subscription, 2s. 6d.; Life Composition, 21s.

List of Papers read during Session 1904–1905, and published in the "Transactions" (issued to Members only).

Armstrong, C.—Canonbie and its Priory.

—The Parish and Kirk of Staplegordon.

Armstrong, C.—The Roman Camp at Raeburnfoot, Eskdalemuir.

Bell, R.—The Fort of Overbie and its Connecting Trenches.

Brown, J. B.—Elizabeth Stuart, Queen of Bohemia.

Curle, A. O., F.S.A.Scot.—Notes on Carved Roman Capitals from Hobbirk, and on a Wayside Cross at Harwood.

—Some Notes on the Account Book of Dame Magdalen Nicholson, Widow of Sir Gilbert Elliot of Stobs, 1671–1698.

—Description of the Fortifications on Ruberslaw, Roxburghshire, and

Notices of Roman Remains found there.

Hole, W. B., R.S.A.—Pictorial Art and Christianity.

Rutledge, C. B., M.D.—Handfasting. *Southesk, The Rt. Hon. The Earl of.*—Douglas, Percy, and the Cavers Ensign.

Taylor, H. B.—Scottish Songs and Airs derived from Foreign Sources.

Watson, G.—The Story of Maiden Lilliard: Is it a Myth?

IRELAND.

THE ROYAL SOCIETY OF ANTIQUARIES OF IRELAND.

(Founded in 1849 as the *Kilkenny Archæological Society*; Name changed to *The Royal Historical and Archæological Association of Ireland* in 1869, and again to the present title in 1890.)

6 STEPHEN'S GREEN, DUBLIN.

Officers.—*President*: John Ribton Garstin, D.L., F.S.A., M.R.I.A. *Hon. Secretary*: R. Cochrane, LL.D., I.S.O., F.S.A., M.R.I.A., 6 Stephen's Green, Dublin.

Meetings.—The Annual General Meeting takes place on the last Tuesday in January at Dublin. Evening Meetings are also held in Dublin on the last Tuesday in February, March, October, and November. Meetings are held in the Provinces quarterly.

Membership.—Fellows: Entrance Fee, £2; Annual Subscription, £1. Members: Entrance Fee, 10s.; Annual Subscription, 10s.

*List of Papers read during Session 1904–1905, those marked * have been published.*

The President.—Hall-Marks on Irish Plate.

—Some Greek Inscriptions in Ireland.

Ball, F. E., M.R.I.A.—On some Remarkable Storms of the Eighteenth Century.

Berry, H. F., I.S.O., M.A., M.R.I.A.—Sheriffs of the County Cork, Henry III. to 1660.*

Bewley, Sir E. T., LL.D.—On an Ancient Pedigree of the O'More Family of Leix.*

—A Pillar-stone, or Gallaun, at Leighlinbridge, County Carlow.*

Blake, M. J.—On an Old Rental of Cong Abbey.*

Cochrane, R., I.S.O., F.S.A.—Notes on the Buildings and Frescoes of Abbey Knockmoy.*

—The Round Tower of Kilmacduagh, Co. Galway.*

Cosgrave, Dr E. MacD.—Contributions towards a Catalogue of Engravings of Dublin.*

—A Note on an Irish Volunteer Curtain.*

Costello, T. B., M.D.—The Antiquities of the Tuam District.*

Fahey, The Very Rev. J., D.D., P.P., V.G.—The Ecclesiastical Monuments at Kilmacduagh.*

Flood, W. H. G.—Glascarrig Priory, County Wexford.*

- Glynn, J. A.*, B.A.—Abbey Knockmoy.*
- Hewson, Rev. Canon*, M.A.—Thomastown, Kilfane, and Tullaherin, County Kilkenny.
- Kane, W. F. de V.*, M.A., D.L., M.R.I.A.—On an Early French Inscription, in Lombardic Letters, in Kent.
- Kelly, R. J.*—Antiquities of Tuam and District.*
- Langrishe, R.*—Jerpoint Abbey, County Kilkenny.*
- Macnamara, Dr G. U.*—The Lisdoonvarna Bronze Pot.*
- Malone, The Very Rev. S.*, P.P., V.G., M.R.I.A.—Iniscathy after Ceasing to be a Sea.*
- Molony, Dr H.*—Ancient Churches at Ballingarry, County Limerick.
- Nolan, Col.*—The Castles of Ballinderry and Barnaderg.
- Orpen, G. H.*, B.L., B.A.—The Battle of Dundonnell, Bag-in-bun, A.D. 1170.*
- The Carew, Bag-in-bun, and Fethard Castle Inscriptions.*
- O'Shaughnessy, C.B.*, M.V.O.—Notes on the Jacobite Tract, "A Light to the Blind."
- Tuam, His Grace the Archbishop of.*—Inishmain Abbey: the Hag's Castle, Lough Mask, and Cong.*
- Westropp, T. J.*, M.A.—A Day's Exploration in Burren, County Clare.
- Irish Motes and Early Norman Castles.*

IRISH ARCHÆOLOGICAL AND CELTIC SOCIETY.— HISTORIC LITERATURE OF IRELAND.

Officer.—*The Secretary*, Villa Nova, Blackrock, Co. Dublin, to whom all communications should be addressed.

Publications.—**HISTORIC LITERATURE OF IRELAND.** In this series are printed Original, Contemporary Documents, Letters, and Personal Narratives in relation to Ireland and Irish Affairs from Authentic Manuscripts in English, Irish, and Continental Archives. These writings supply important and interesting details not to be found in works hitherto published. The books are printed in limited numbers. Eleven volumes in quarto, with illustrations, have already been issued.

COLLEGE HISTORICAL SOCIETY, DUBLIN.

(Founded by Edmund Burke, 1770.)

5 TRINITY COLLEGE.

Officers.—*President*: H. L. Murphy, B.A. *Secretaries*: T. S. C. Dagg and M. H. Macredy, B.A.

Meetings.—Every Wednesday, from November to June, at 8 P.M., during the Session, in the Graduates Memorial Building. The Annual Meeting is in November.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publications.—*The Auditor's Address for Session 1904-1905*, and *The British Policy of Free Imports*, by H. L. Cowdy, B.A.

ASSOCIATION FOR THE PRESERVATION OF THE MEMORIALS OF THE DEAD IN IRELAND.

(FOUNDED 1888.)

Officers.—*Committee*: Lord Walter FitzGerald, F.R.S.A.I.; Canon French; Rev. H. R. Huband; The Rev. E. O'Leary, P.P.; Sir Edmond Bewley.
Hon. Treasurer: E. R. M'C. Dix, 17 Kildare Street, Dublin.

Meetings.—The Committee meet once in December or January.

Membership.—No Entrance Fee ; Annual Subscription, 10s. ; Life Composition, £7.

Publication.—*The Journal* (issued to Members only).

THE COUNTY KILDARE ARCHÆOLOGICAL SOCIETY (AND SURROUNDING DISTRICTS),

44 WELLINGTON ROAD, DUBLIN. (FOUNDED 1891.)

Officers.—*President*: The Earl of Mayo, K.P., P.C. *Hon. Secretaries*: Sir Arthur Vicars, K.C.V.O., F.S.A., Ulster, Dublin Castle ; Lord Walter FitzGerald, M.R.I.A., Kilkea Castle, Maganey, Co. Kildare. *Hon. Editor*: Rev. Canon Sherlock, Sherlockstown, Naas. *Hon. Treasurer*: H. Hendrick-Aylmer, Kerdiffstown, Sallins. *Hon. Auditor*: A. Warmington, Naas.

Meetings.—The Anniversary Meeting takes place in January. The Excursion Meeting is held in September. Other Meetings are held occasionally for reading Papers.

Membership.—No Entrance Fee ; Annual Subscription, 10s. ; Life Composition, £5.

List of Principal Papers published in the "Journal," Vol. IV., Nos. 4 and 5, 2s. 6d. per No. (Ponsonby).

Bewley, Sir Edmund.—Rev. Christopher Hewetson.

Bartchaell, G. D.—Rev. Christopher Hewetson.

Drury, C.—County Wicklow Archæological Notes around Kiltegan.

FitzGerald, Lord W.—The History and Antiquities of the Queen's County, Barony of Portmahinch. The History of Morett Castle and the FitzGerald. Notes on the District of Ivry, Coolbanagher Castle, and the Hartpoles.

—Palmerstown, Co. Dublin, two Tombs in connection with Co. Kildare Families.

—The History and Antiquities of the Queen's Co., Barony of Portmahinch,—Lea Castle.

—Knockaulin.

—Corbally Hill.

FitzGerald, Lord W.—An Ancient Irish Cooraun or Brogue.

—Fragments of Celtic Slabs in Kildare Cathedral.

Garstin, J. R., F.S.A.—The Earl of Kildare and Francesco Chiericati, Papal Nuncio to Henry VIII., A.D. 1517.

Mayo, The Earl of.—Some Notes on the Vikings ; their Ships ; and how they Harassed Ireland.

O'Grady, J. S.—Prehistoric Burial Ground at Pollardstown, Co. Kildare.

—Colonel Thomas Dougan of Castle-toun, Kildrought: Soldier and Statesman.

—Capella de Ballymannny.

O'Kelly, E. P.—The Eccentric Earls of Aldborough.

SECTION XIV.

MEDICINE.

LONDON.

LOCAL GOVERNMENT BOARD,

WHITEHALL, S.W.

Officers.—*President*: Right Hon. Gerald W. Balfour, M.P. *Parliamentary Secretary*: J. Grant Lawson, M.P. *Permanent Secretary*: Sir S. B. Provis, K.C.B. *Legal Adviser*: A. D. Adrian, C.B.

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MEDICAL DEPARTMENT.

THE MEDICAL DEPARTMENT OF H.M. LOCAL GOVERNMENT BOARD issues an annual volume by way of supplement to the Board's Report. It habitually contains (1) a number of papers relating to the administrative business of the department, both with local sanitary workers and the general public; (2) the results of comprehensive studies by medical inspectors into larger questions of medical and sanitary interest; and (3) reports on "auxiliary scientific investigations" made by distinguished bacteriologists, chemists, pathologists, and others, in aid of the work of the department.

THE MEDICAL SOCIETY OF LONDON,

11 CHANDOS STREET, CAVENDISH SQUARE. (FOUNDED 1773.)

Officers.—*President*: Sir Lauder Brunton, M.D., F.R.S. *Treasurer*: D. H. Goodsall, F.R.C.S. *Hon. Secretaries*: J. S. Risien Russell, M.D.; C. S. Wallace, F.R.C.S. *Registrar and Librarian*: G. Bethell.

Meetings.—On the second and fourth Mondays, from the second Monday in October to the second Monday in May, at 8.30 P.M. The Annual Meeting takes place in March.

Membership.—*Entrance Fee*: for Town Members, 21s.; for Country Members, 10s. 6d. *Annual Subscription*: for Town Members, 21s.; for Country Members, 10s. 6d.

Publication.—*Transactions*, Vol. XXVII., price 10s. (November 1903).

Papers read during Session October 1904 to May 1905, and published in "Transactions," Vol. XXVIII. (January 1905), price 10s.

- Discussion on the Diagnostic Value of Leucocytooses*, opened by Dr J. H. Drysdale. Oct. 24.
 — *Hæmaturia*, opened by Dr A. E. Garrod. Jan. 23.
 — *Carcinoma*, opened by Dr E. F. Bashford. Mar. 13.
 — *The Perineal and Supra-pubic Methods of Prostatectomy*, opened by Mr R. Harrison. May 8.
Batten, Dr F. E.—*Encephalitis*. Jan. 9.
Bolton, Dr C.—*Primary Heart Failure as the Immediate Cause of Death in Acute Diphtheritic Toxæmia*. Nov. 28.
Caley, Dr H. A.—*Some Clinical Features of Colitis*. Mar. 27.
Gow, Dr W. J.—*Some Remarks on Cesarean Section*. Feb. 27.
Hunt, Dr E. R.—*Subphrenic Abscess*. Dec. 12.
Jones, Dr R.—*Functional Insanity and its Relation to Allied Neurosis*. Jan. 9.
Lewers, Dr A. H. N.—*Results of Gynæcological Laparotomies*. Feb. 27.
Morris, H.—*The Financial Relation Existing between the London Hospital and the Associated Medical Schools, and the Bearing of these Relations on Medical Education in London*. May 15.
Power, D'Arcy.—*Duodenal Ulcer, and its Treatment*. Nov. 28.
Rolleston, Dr H. D.—*Colitis Sinistra*. Mar. 27.
Savage, Dr G. H.—*Mental Disorders. (Lettsomian Lectures.)* Feb. 6, 20, and Mar. 6.
Shield, M.—*A Case of Gigantic Renal Calculus*. Oct. 10.
Wallace, C. S.—*The Surgical Treatment of Subphrenic Abscess*. Dec. 12.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY,

20 HANOVER SQUARE, W. (FOUNDED 1805; CHARTERED 1834.)

Officers.—*President*: Sir R. Douglas Powell, Bart., M.D., K.C.V.O. *Hon. Secretaries*: G. Newton Pitt, M.D.; Stephen Paget, F.R.C.S. *Secretary*: J. Y. W. MacAlister, F.S.A.

Meetings.—Fortnightly, from the fourth Tuesday in October to the second Tuesday in June, at 8.30 P.M. The Annual Meeting is held in March.

Membership.—Entrance Fee, £3, 3s.; Annual Subscription, £3, 3s.

List of Papers read during Session 1904 to June 1905. All these may be purchased separately from Mr Lewis, 136 Gower Street, and are published in the Annual Volume of "Transactions" (Longman).

- Bardswell, N., M.D.*—*The Consumptive Working Man*. June 6.
Bramson, W. P. S., M.D.—*Abdominal Tuberculosis in Childhood: a Clinical Study*. June 6.
Bucknall, R.—*The Pathology and Prevention of Secondary Parotitis*. Oct. 25.
Cambridge, P. J., M.B.—*The Reaction of Phenylhydrazin with other Substances than Dextrose occurring in the Urine*. June 6.
Comer, E. M., and H. I. Pinches.—*Torsion of the Great Omentum*. June 6.
Garrod, A. E., M.D., and L. L. Wynne-Davies, M.D.—*On a Group of Associated Malformations, including almost Complete Absence of the Muscles of the Abdominal Wall, and Anomalies of the Genito-Urinary Apparatus*. Feb. 14.
Head, H., M.D., F.R.S.—*The Affluent Nerves under a New Aspect (Marshall Hall Prize Address.)* May 23.
Lawson, D., M.D.—*Some Changes which take place in the Lungs and Pleura chiefly in Pulmonary Tuberculosis*. Jan. 10.

- Lett, H., M.B.*—An Analysis of Ninety-nine Cases of Inoperable Carcinoma of the Breast treated by Oöphorectomy. Jan. 24.
- Levy, A. G., M.D., A. D. Waller, M.D., F.R.S., E. Willett, M.D., and B. J. Collingwood.*—Communications on "Apparatus for Administering Chloroform Vapour Mixed with Air." Nov. 22.
- Discussion, Nov. 22; Dec. 13.
- Oliver, T., M.D.*—Ankylostomiasis Principally as Affecting Coal and Metalliferous Miners. Mar. 28.
- Pitt, G. N., M.D.*—Two Cases of Fungating Endocarditis followed by Convalescence. Nov. 8.
- Robson, A. W. M.*—Actinomycosis of the Gall-Bladder. Apr. 11.
- Adenoma of the Gall-Bladder. Apr. 11.
- The Operation of Jejunostomy, with a Description of a New Method. Apr. 11.
- A Series of 123 Cases of Cholecystotomy for Calculi in the Common Duct. Apr. 11.
- Tebbs, B. N., M.D.*—Symptomatic Parotitis. Oct. 25.
- Thorburn, W.*—The Seventh Cervical Rib and its Effects upon the Brachial Plexus. Nov. 8.
- Treves, Sir F., Bart., K.C.V.O., C.B.*—The Subsequent Course and Later History of Cases of Appendicitis after Operation. Feb. 28.
- Special Discussion, Feb. 28; March 7; March 14.
- Turner, W. A., M.D.*—The Influence of Stigmata of Degeneration upon the Prognosis of Epilepsy. Feb. 14.
- Weber, F. P., M.D.*—A Case of "Splénomegalic" or "Myelopathic" Polycythæmia with True Plethora and Arterial Hypertonia without Cyanosis. May 9.
- and *E. Michels, M.D.*—A Case of Chronic Jaundice and Great Enlargement of the Liver, due to Primary Carcinoma commencing at the Junction of the Hepatic Ducts. June 6.

BRITISH MEDICAL ASSOCIATION,

429 STRAND, W.C. (FOUNDED 1832.)

Officers (1905-1906).—*President:* George C. Franklin, F.R.C.S. *President-Elect:* Richard Andrews Reeve, B.A., M.D., LL.D. *Chairman of Council:* H. W. Langley Browne, M.D., F.R.C.S. *Treasurer:* H. Radcliffe Crocker, M.D., B.S., F.R.C.P. *Editor of the "British Medical Journal":* Dawson Williams, M.D., F.R.C.P. *General Secretary:* Guy Elliston, 429 Strand, W.C.

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BRITISH MEDICAL ASSOCIATION—*continued.*

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The 73rd Meeting was held in Leicester from July 24 to 28, 1905. The 74th Annual Meeting will be held at Toronto.

Addresses and Reports at the Leicester (1905) Meeting.

Report of Council.

Report of Medico-Political Committee.

Report of the Ethical Committee.

The Address in Medicine. Medicine: Past, Present, and Prospective. By H. MAUDSLEY, M.D., LL.D., F.R.C.P.

The Address in Surgery. On Ascending Currents in Mucous Canals and Gland Ducts and their Influence on Infection. By C. J. BOND, F.R.C.S.

List of Papers communicated to the Sections at the Seventy-third Annual Meeting held at Leicester July 24 to July 28, 1905.

Section of Medicine.

Officers.—*President*: Frank M. Pope, M.D. *Hon. Secretaries*: B. Dawson, M.D.; W. M. Stevens, M.D.; F. H. Jacob, M.D.

Discussion on the Treatment of Sleeplessness and Pain, opened by Sir L. Brunton.

—The Pathology, Diagnosis, and Treatment of Various Forms of Acute Meningitis, opened by Dr H. Tooth.

—The Diagnosis and Treatment of Cardiac Degeneration apart from Valvular Disease, opened by Dr J. Dreschfeld.

Davidson, J. M.—The Diagnostic Value of X-rays.

Dawson, B.—Diagnosis of Gastric Ulcer.

Hadley, W.—Diagnosis of the Varieties of Pleural Effusions.

Malcolm, J. D.—Two Cases of Partial Sloughing of the Vermiform Appendix.

Poynton, F. J.—The Employment of Citrate of Soda in Infant Milk-feeding.

Ransom, W. B.—The Influence of Posture on Breath Sounds.

Raw, N.—Human and Bovine Tuberculosis, with Special Reference to Bovine Infection in Children.

BRITISH MEDICAL ASSOCIATION—*continued.* (Leicester, 1905.)

Section of Surgery.

Officers.—*President*: Sir Charles Bent Ball, M.Ch. *Hon. Secretaries*:

P. Furnivall, F.R.C.S.; C. E. Marriott, M.C.

- Discussion* on the Surgical Treatment of Non-Malignant Diseases of the Stomach, opened by B. G. A. Moynihan, M.S., London.
- The Treatment of Malignant Disease of the Rectum, opened by Sir C. Ball, M.Ch.
- Atkins, T. G.*—After-histories of Twenty Cases of Gastrojejunostomy for Non-malignant Conditions of the Stomach.
- Short Notes on a Case of Acute Gangrenous Appendicitis.
- Berry, J.*—Sixty Cases of Cleft Palate Treated by Operation.
- Bidwell, L. A.*—A Case of Angio-Sarcoma of Omentum.
- Bucknall, R.*—Two Cases of Operation involving the Thoracic Duct.
- Cambridge, P. J.*—Observations on the Fæces in Biliary Obstruction and Pancreatic Disease.
- Childe, C. P.*—An Unusual Condition of the Large Intestine Associated with Carcinoma in Two Sisters.
- Clarke, Jackson.*—A Note on Congenital Dislocation of the Hip Joint, and its Modern Treatment.
- Fenwick, E. H.*—Life History of a Left-sided Ureteritis Peculiar to the Female.
- Freyer, P. J.*—Total Enuclation of the Prostate: a Review of 200 Cases.
- Handley, S.*—Epigastric Invasion of Abdomen in Breast Cancer.
- Hartigan, T. J. P.*—The Apparatus and Technique of Treating Carcinoma of the Oesophagus with Radium.
- Jones, R.*—The Treatment of Recurrent Dislocation of the Shoulder and Displacement of the Patella.
- Keelly, C. B.*—Appendicostomy.
- Leedham-Green, C.*—Some Further Experiments on the Sterilisation of the Skin.
- Malcolm, J. D.*—Two Cases of Partial Sloughing of the Vermiform Appendix.
- Mitchell, A. B.*—Treatment of Fractured Femur.
- Mummery, P. L.*—The Diagnosis of Lesions in the Upper Rectum and Sigmoid Flexure.
- Sheen, W.*—A Case of Ligature of the Innominate Artery.
- Thomas, J. L.*—Immediate Crossing of Facial Nerve to the Spinal Accessory Nerve in a Case of Removal of a Large Parotid Tumour.
- Tubby, H.*—Spinal Osteomyelitis.
- Wheeler, W. I. de C.*—The Talma-Morison Operation.
- White, S.*—Gastro-pyloro-duodenostomy.

Section of State Medicine.

Officers.—*President*: Philip Boobyer, M.D. *Hon. Secretaries*: W. Williams, M.D.; C. K. Millard, M.D.

- Discussion* on Hospital Isolation for Infectious Disease, opened by G. Wilson, M.D.
- Sanatoria for the Poorer Consumptives, opened by L. A. Weatherly, M.D.
- Infants' Milk Dépôts, opened by Bailie W. F. Anderson.
- What is Notifiable Diphtheria, opened by P. W. Williams, M.D.
- Kaye, J. R.*—The Working of the Midwives Act.
- Kelynack, T. N.*—Alcohol in Relation to National Vitality.
- Kenwood, Prof. H. R.*—Elementary Education and the Teaching of Hygiene.
- Magennis, E.*—Physical Deterioration in the Schoolroom.
- Nash, J. T. C.*—Shellfish and Typhoid Fever.
- Rentoul, Dr R.*—Proposed Sterilisation of certain Degenerates.

Section of Industrial Hygiene.

Officers.—*President*: H. W. Langley Browne, M.D. *Hon. Secretaries*:

C. F. Bryan, M.R.C.S.; T. Watts, M.D.

- Discussion* on Physical Deterioration, its Causes and Extent, opened by Dr D. Williams.
- Discussion* on Anthrax, opened by Dr J. W. Bell.

BRITISH MEDICAL ASSOCIATION—*continued*. (Leicester, 1905.)

- Discussion on Accident and Poisoning Reports*, opened by Dr W. F. Dearden.
- *Poverty in Relation to Disease and Degeneration*, opened by Dr C. Muthu.
- Duncan, C.*—Steam Disinfectors of Horsehair.
- Goadby, K. W.*—Condition of Blood in Plumbism.
- Hall, Dr W.*—The Influences of Environment upon Physical Development.
- Strachan, Dr J.*—School Life as a Cause of Physical Deterioration.

Section of Laryngology, Otology, and Rhinology.

Officers.—*President*: Frederick Wm. Bennett, M.D. *Hon. Secretaries*:
A. L. MacLeod, M.B.; C. H. Fagge, M.S.

- Discussion on the Lines of Treatment in Preventing Acute Middle-Ear Suppuration from becoming Chronic*, opened by Dr W. Milligan.
- *The Treatment of Tuberculous Disease of the Larynx*, opened by Dr J. Horne and Dr S. Habershon.
- *The Infectivity and Notification of Diphtheria*, with Special Reference to latent forms of the Disease, opened by Dr W. Williams and Dr D. Davies.
- Barwell, H.*—On the Choice of the Method of Treatment in Cases of Tuberculous Laryngitis, with a Plea for the Routine Inspection of the Throats of Consumptive Patients.
- Gray, A. A.*—The Pathological Conditions found in a Case of an Individual who has suffered from Deafness during Life.
- Horne, Dr J., Dr Habershon, and Dr H. Barwell.*—Tuberculous Laryngitis.
- Jacob, Dr.*—Pseudo-diphtheric Bacilli.
- Owston, T. G.*—The Lines of Treatment in Preventing Acute Middle-Ear Suppuration from becoming Chronic.
- Pegler, L. H.*—A Note on the Comparative Value of the Murre and Fenster re-section Types of Operations for Deflection of the Nasal Septum.
- Permewan, W.*—A Fibro Lipoma removed from the Naso-Pharynx.
- Smurthwaite, H.*—Submucous Re-section of the Nasal Septum.
- Syme, W. S.*—The Demonstration of a Pair of Forceps for Operations on the Maxillary Antrum.
- Tilley, H.*—The Symptoms, Diagnosis, and Treatment of Chronic Suppuration in the Sphenoidal Sinus.

Section of Navy, Army, and Ambulance.

Officers.—*President*: Surgeon-Lieut.-Col. Henry W. Kiallmark, M.R.C.S.
Hon. Secretaries: Fleet-Surgeon E. J. Biden, R.N.; Capt. W. P. Peake, M.R.C.S.; Capt. E. C. Montgomery-Smith, R.A.M.C.

- Andrews, Fleet-Surg. P. W.*—Arrangements for the Treatment of Wounded in Action on Board H.M.S. *Magnificent*.
- Austin, Fleet-Surg. T.*—The Collection and Distribution of Wounded in a Modern Cruiser Engagement, from Observations made in Chemulpo, February 9th, 1904.
- Barnes, Lieut.-Col. H. J.*—On the Relations between the Civil Authorities and Ambulance Associations.
- Beadnell, Fleet-Surg. C. M.*—Some Dynamical and Hydrodynamical Effects of the Modern Small-Bore Bullet.
- Beadnell, Fleet-Surg. C. M.*—On the Disposal of our Wounded in a Naval War.
- Biden, Fleet-Surg. E. J.*—Remarks on the Headdress of Certain Ratings in H.M. Navy.
- Crawford, Maj. G. S.*—On the Care of Soldiers' Feet.
- Faichnie, Maj.*—Causation, Varieties, and Treatment of Dysentery on Active Service.
- Furley, Sir J., C.B.*—Red Cross Organisation, with Special Reference to Preparation for War in Times of Peace.
- Giles, Surg.-Col. P. B.*—Care of Soldiers' Feet.

BRITISH MEDICAL ASSOCIATION—continued. (Leicester, 1905.)

- Jenkins, E. L.* — Causation, Varieties, and Treatment of Dysentery on Active Service.
- Marshall, Maj. C. de Z.* — First Aid Treatment of Fractured Thigh in Military and Civil Practice.
- O'Connor, Maj. W. M.* — A Practical Solution of the Army Medical Reserve Difficulty.
- Robinson, Surg.-Lieut.-Col. G. S.* — On the Feeding of the Soldier in Active Service.

Section of Obstetrics and Gynæcology.

Officers.—*President:* Herbert R. Spencer, M.D. *Hon. Secretaries:* M. W. Williams, M.R.C.S.; Miss L. G. Anderson, M.D.

- Discussion on the Diagnosis and Treatment of Cancer of the Uterus,* opened by Prof. Wertheim.
- *The Treatment of Albuminuria and Eclampsia occurring in Pregnancy,* opened by R. Boxall, M.D.
- Cameron, S. J.* — Degenerations in and Complications of Fibroids.
- Campbell, J.* — The Influence of the Presence of Pus in the Female Urethra upon the Prognosis in Obstetrical and Gynæcological Cases.
- Corby, Prof. H.* — Fibroid Tumour of Ovary Removed from a Hermaphrodite.
- Maclean, E. J.* — Elephantiasis of Vulva.
- Parsons, J. I.* — Operation for Prolapse of Uterus.
- Tweedy, Prof.* — High-Limit of Pulse and Temperature throughout the Normal Puerperium.
- Wilson, T.* — Two Cases of Vaginal Cæsarean Section in the Last Month of Pregnancy.

Section of Ophthalmology.

Officers.—*President:* George A. Berry, F.R.C.S. Edin. *Hon. Secretaries:* R. W. W. Henry, M.D.; J. H. Parsons, F.R.C.S.

- Discussion on Intraocular Tuberculosis; its Etiology, Diagnosis, Prognosis, and Treatment,* opened by W. H. H. Jessop, M.B.
- *Capsular Complications after Cataract Extraction,* opened by E. T. Collins.
- Benson, A. H.* — Evolution in Blepharoplasty.
- Berry, Dr E. A.* — A New Test for Visual Acuteness.
- Bronner, A.* — Notes on a Case of Slight Myopia in which distressing Local and General Symptoms were Relieved by the Use of Glasses which were much too strong.
- Grossmann, K.* — Absence of Dilator of Iris.
- Grossmann, K.* — Conical Cornea and Hot-air Caution.
- *Lepra Ophthalmica.*
- Harman, B.* — Results of Electrical Treatment of Trachoma at Middlesex Hospital.
- *False Hay-Fever.*
- Henderson, E. E.* — Action of Eserine on Animals.
- Hern, J.* — Some Observations on the Effect of the Presence of Adenoids in the Naso-Pharynx on some Eye Affections.
- Miller, V.* — Short Notes on Two Cases of High Myopia in Young Children.
- Shaw, C.* — Short Account of a Case of Amblyopia, apparently Toxic, following Influenza.

Section of Psychological Medicine.

Officers.—*President:* Alex. R. Urquhart, M.D. *Hon. Secretaries:* A. M. Jackson, M.B.; J. W. Higginson, M.R.C.S.

- Discussion on Clinical Study of the Heredity of Insanity,* opened by Dr A. R. Urquhart.
- *Occupation and Environment as Causative Factors of Insanity,* opened by Dr T. B. Hyslop.
- *The Prognosis in Mental Disorders,* opened by Dr R. Jones.
- Baugh, L.* — Confusional Insanity.
- Potts, W. A.* — Mental Defects in Children.
- *Causation of Mental Defects in Children.*
- Schofield, A. T.* — The Extension of Psychology in Medicine.
- Stewart, R. C.* — Short Notes on Lunacy in Leicester.

BRITISH MEDICAL ASSOCIATION—*continued.* (Leicester, 1905.)

Section of Pathology.

Officers.—*President:* Frederick W. Mott, M.D., F.R.S. *Hon. Secretaries:*
J. W. H. Eyre, M.D.; T. V. Crosby, M.D.

- Discussion on The Relationship of Heredity to Disease, opened by Dr F. W. Mott.*
- Abrahams, B. L.*—Morbid Anatomy and Histology of Various Forms of Chronic Joint Disease.
- Bainbridge, F. A.*—Pathology of Miner's Paralysis.
- Birt, C.*—Caffeine Enrichment Method.
- Bushnell, F.*—Carcinoma of Stomach.
- Cammidge, P.*—Pancreatic Reaction of Urine.
- Cheine, J.*—The Cell in Neoplasms.
- Dimmock, A. F., and F. W. Bransom.*
—(a) A Rapid and Simple Process for the Estimation of Uric Acid;
(b) A Clinical Method for the Estimation of Chlorides in Urine.
- Eyre, J.*—A New Aseptic Operating Table for Experimental Work on Animals.
- Eyre, J. W. H., and J. F. Flashman.*
—Diphtheroid Organisms in the Throats of the Insane.
- Fink, G. H.*—Cancer and Pre-cancerous Changes.
- Gilchrist, A. W.*—A Method of Demonstrating Individual Metabolism by the Investigation of Pulmonary Expiration.
- Grunbaum, A., and R. Cattle.*—The Mitoses occurring in the Graafian Follicle.
- May, W. P.*—A Case of Cerebral Hemiatrophy.
- Price-Jones, C.*—The Influence of certain Micro-organisms upon the Cytology of Red Bone-Marrow.
- Ross, F. W. F.*—Observations on certain Features Exhibited by Cells in their Relation to Cancer-Genesis.
- White, Prof. A. H.*—Paratyphoid Infection.
- Wright, Dr H.*—The Etiology and Pathology of Beri-beri.

Section of Dental Surgery.

Officers.—*President:* Morton Smaill, M.R.C.S. *Hon. Secretaries:*
W. A. Vice, M.B.; J. G. Turner, F.R.C.S.

- Discussion on Toothache, Neuralgia, and Remote Affections of Dental Origin.*
- Bogus, E. A.*—The Influence of the Arrangement of the Teeth into their Normal Arches on Development.
- Clarke, A. V.*—An Unusual Case of Necrosis of the Jaw.
- Colyer, J. F.*—A Note on Dental Diseases in the Horse.
- Gabell, D.*—Some Pathological Conditions in Teeth.
- Goadby, K. W.*—Preliminary Note on a Vaccine Treatment of Pyorrhoea Alveolaris.
- Ryder, J. F.*—Vegetarianism and its Effects upon the Teeth.
- Spokes, S.*—The Teeth as a Test of Age; a Note on Eruption.

Section of Tropical Diseases.

Officers.—*President:* Rubert W. Boyce, M.B. *Hon. Secretaries:* G. A. Clarkson, F.R.C.S.; J. M. H. Macleod, M.D.

- Discussion on Tick Fever, opened by Major Ross.*
- Tropical Diseases of the Skin, opened by Dr J. M. H. Macleod.
- Sprue and Hill Diarrhoea, opened by J. Cantlie and Dr A. Duncan.
- Bele, J.*—A Tropical Disease due to the Presence of the Parasite *Rhyzoglyphus parasiticus*.
- Cantlie, J.*—Two Cases of Liver Abscess.
- Castellani, A.*—Diarrhoea from Flagellates.
- Observations on Dhoobie Itch and other Tropical Trichophytic Diseases.
- On the Presence of Spirochaetes in Two Cases of Ulcerated Parangi.
- Tropical Forms of Pityriasis Versicolor.
- Clarke, Dr J. T.*—The Causation of Beri-Beri.

BRITISH MEDICAL ASSOCIATION—*continued*. (Leicester, 1905.)

- Fink, Dr G. H.*—The Mosquito Malaria Theory and Malaria Prophylaxis.
Graham, Dr D. M.—Guinea-Worm Infection.
Graham, Dr T. C.—Notes on Framboesia Tropica.
Gray, Dr S. G.—Method of Taking Quinine in the Prophylaxis of Malaria.
Grossmann, Dr K.—Leprosy.
Hearsey, Dr H.—Malarial Fever in British Central Africa.
Hewlett, Dr R. T.—Note on Two Cases of Beri-Beri Paresis, treated with Strychnine Injection.
Janschne, Prof.—Pian or Yaws.
Manson, Sir P.—Two Cases of Kala Azar, and a Suggestion.
Newstead, Dr R.—On the Structural Characters and Metamorphoses of Pathogenic Ticks.
- Pernet, G.*—Involvement of the Scalp in Leprosy.
Rogers, Capt. L.—Two further Cases of Snake Bites, treated by Local Applications of Permanganate of Potash.
 — Blood Counts in Acute Hepatitis and Anæbic Abscess of the Liver, etc.
Samson, Dr L. W.—Pellagra.
Sandwich, Dr F. M.—Penta.
Smith, Dr P. W. B.—Bright's Disease, with Special Reference to the Blood Changes and Connection with the Leishman-Donovan Bodies.
Stephens, Dr J. W., and Dr S. R. Christophers.—A Peculiar Echinostomum Egg.
Todd, Dr T. L., and the late Dr J. E. Dutton.—The Nature of Human Tick Fever on the Congo.

List of Papers read before Branches during Session 1904–1905.

(*Bath*—Bath and Bristol Branch. *Birm.*—Birmingham and Midland Counties Branch. *Bord.*—Border Counties Branch. *Camb.*—Cambridge and East Herts Branch. *Dorset*—Dorset and West Hants Branch. *E. A.*—East Anglia Branch. *Glas.*—Glasgow and West of Scotland Branch. *Glos.*—Gloucestershire Branch. *Lancs.*—Lancashire and Cheshire Branch. *Met. Cos.*—Metropolitan Counties Branch. *N. E.*—North England Branch. *N. Cos. of Scotland*—Northern Counties of Scotland Branch. *N. Lancs.*—North Lancashire and South Westmorland Branch. *N. Wales*—North Wales and Shropshire Branch. *Oxf.*—Oxford and Reading Branch. *S. E.*—South-Eastern Branch. *Shrop.*—Shropshire and Mid Wales Branch. *S.*—Southern Branch. *S. E. Ireland*—South-Eastern of Ireland Branch. *S. Mid.*—South Midland Branch. *S. Wales*—South Wales and Monmouthshire Branch. *S. W.*—South-Western Branch. *Staff.*—Staffordshire Branch. *Stirling*—Stirling Branch. *U.*—Ulster Branch. *W. Som.*—West Somerset Branch. *Yorks.*—Yorkshire Branch.)

- Discussion on Abuse of Hospitals*, opened by Dr J. S. Fuller. Feb. 16. *Met. Cos.*
 — *Anæsthetics in General Practice*, opened by P. J. Kingston. Oct. 13. *W. Som.*
 — *The Coroner's Bill*, opened by Dr J. R. Fuller. Nov. 25. *Met. Cos.*
 — *Infantile Diarrhoea*, opened by Dr G. W. Kendall. Feb. 1. *N. Wales.*
 — *The Irregularity of the Heart's Action and its Association with Epileptoid Attacks*, opened by Dr F. H. Clarke. June 18. *Bord.*
 — *The Modern Treatment of Phthisis*, opened by Dr T. H. J. E. Hughes. Apr. 12. *N. Lancs.*
- Discussion on Pernicious Anæmia*, opened by Dr Gowlland. Oct. 2. *S. E.*
 — *A Sanatorium for the South of Scotland*, opened by Dr J. M. Ross. Oct. 6. *Bord.*
Anderson, Dr F.—On Hospital Abuse and its Remedies. May 12. *Met. Cos.*
Anderson, Mrs G.—Vaccination and Re-Vaccination. Jan. 27. *Met. Cos.*
 — *Vaccination and Re-Vaccination*. Nov. 24. *Met. Cos.*
Andrews.—Anæsthesia by Ethyl Chloride. Mar. 24. *S. E.*
Baldwin, Dr T. A.—Excision of the Knee. Oct. 26. *N. Lancs.*
Barrow, Dr.—Differences in Type of Diseases at Different Periods. Apr. 13. *N. E.*

BRITISH MEDICAL ASSOCIATION—*continued*. (Branches.)

- Beddard, Dr A. P.**—The Uses of Adrenalin, Alcohol in Fevers, Opium, and Cardiac Stimulants in Fevers. Dec. 8. *Met. Cos.*
- Beevor, Sir H.**—On Items of Treatment in Various Diseases. Feb. 24. *Met. Cos.*
- Begg, Dr C.**—On Sprue. Feb. 22. *Bath.*
- Benson, J. R.**—Some Practical Notes on Skin Grafting. Apr. 26. *Bath.*
- Biddle, Dr.**—Notes on a Case of Large Pleuritic Effusion. Sept. 27. *S. E.*
- Bird, Dr.**—Notes on a Case of Pulmonary Tuberculosis. Apr. 14. *Bord.*
- Bowman, Dr W. O.**—Steam Motors in Medical Practice. June 29. *N. Lancs.*
- Brickdale, Dr J. M. F.**—Milk Depôts. Mar. 29. *Bath.*
- Briscoe.**—Management of the Insane. May 31. *S.*
- Brown, Dr H.**—Notes of Four Cases of Albuminuria in Pregnancy. Nov. 1. *Birm.*
- Calwell, Dr.**—Notes on Tapping Pleural Effusions. Feb. 1. *Ulster Branch.*
- Campbell, Dr J.**—On the Surgery of the Alimentary Canal. Feb. 1. *U.*
- Notes on Three Cases of Intestinal Surgery. Oct. 5. *U.*
- Carpenter, Dr G.**—On Alcohol in Children. Apr. 27. *Met. Cos.*
- Carter, Dr.**—An Unusual Type of Fever Resulting from Animal Bites. Feb. 9. *Birm.*
- Cautley, Dr E.**—On Artificial Methods of Infant Feeding. Jan. 27. *Met. Cos.*
- Cave, Dr E. J.**—Notes of a Case of Acute Pneumococcic Nephritis. Feb. 22. *Bath.*
- Charles, Dr.**—On the Incidence and Effects of Some Diseases on Others. Nov. 24. *S. E.*
- Churton, Dr.**—On the Treatment of Menière's Disease. Oct. 15. *Yorks.*
- Clarke, Dr.**—The Nature and Treatment of Bright's Disease. Mar. 10. *Bord.*
- Clarke, Dr J. M.**—A Form of Anæmia. Oct. 26. *Bath.*
- Clouston, Dr.**—Cerebral Pathology. Oct. 20. *Stirling.*
- Cooper, Dr.**—On an Operation for the Radical Cure of the Antrum of Highmore. Dec. 14. *N. Lancs.*
- Corner, E. M.**—Common Causes of Failure in Surgical Proceedings. Mar. 9. *S. E.*
- Crerar, Dr.**—Notes on a Case of Undescended Testicle. Feb. 23. *Bord.*
- Notes on a Case of Bile Duct Carcinoma with Gall Stones. Feb. 23. *Bord.*
- Notes on Two Cases of Ectopic Gestation. Feb. 23. *Bord.*
- Notes on a Very Large Bursa Patellæ. Feb. 23. *Bord.*
- Crespi, A. J. H.**—Warning Signs of Organic Disease. May 17. *Dorset.*
- Cressy.**—Notes on Three Cases of Tubal Pregnancy and on a Case of Cæsarean Section. May 18. *S. E.*
- Crocker, H. R.**—Two Cases of Skin Disease. Nov. 28. *Met. Cos.*
- Cureton, E.**—On the Present Conditions of Medical Practice. July 7. *N. Wales.*
- Darling, Dr.**—Notes on a Case of Noma of the Anus. Apr. 5. *U.*
- On a Case of Malignant Disease of the Uterus, Simulating Deciduoma Malignum. Feb. 1. *U.*
- Davies, Dr J. E. P.**—Prostatectomy. Oct. 25. *S. Wales.*
- Duncan, Dr J.**—Involution of the Uterus after Labour. Jan. 12. *Birm.*
- Dunn.**—On the Surgical Treatment of Carcinoma of the Stomach. June 8. *S. E.*
- Edgeworth, Dr F. H.**—Notes of a Case of Purpura Hæmorrhagica. Mar. 29. *Bath.*
- Edington, Dr.**—On a Case of Mammary Carcinoma, with Secondary Deposits in Spinal Cord. Apr. 14. *Bord.*
- Evans, C. J.**—Diagnosis and Treatment of Gastric Ulcer. Oct. 27. *S. Mid.*
- Ewart, Dr W.**—The Place of Sugar in the Dietary of Health and of Disease. Jan. 20. *Met. Cos.*
- The Principles of Treatment of Pneumonia. Dec. 1. *S. E.*
- Fenwick, Dr S.**—On Siphonage of the Stomach: its Uses and Abuses. Dec. 13. *Met. Cos.*
- Fielden, Dr.**—The Personal Element in the Administration of Anæsthetics. Nov. 23.
- Firth, J. L.**—Notes on a Case of Torsion of the Spermatic Cord. Oct. 26. *Bath.*

BRITISH MEDICAL ASSOCIATION—*continued.* (Branches.)

- Fitzgerald, Dr.*—On Borderland Cases. Dec. 1. *S. E.*
- Fleming, C. E. S.*—On Lumbago. Apr. 26. *Bath.*
- Folker, H. H.*—Notes on Ophthalmic Cases. Nov. 24. *Staff.*
- Gamgee.*—The Surgical Treatment of Intestinal Obstruction. Dec. 8. *Birm.*
- Giles, Dr.*—The Natural History of Extrauterine Pregnancy. Oct. 20. *S. E.*
- Godwin, Dr.*—On a Case of Anthrax. Nov. 25. *S.*
- Goodall, Dr E.*—Practical Observations Bearing upon some Forms of Mental Disorder. Mar. 7. *S. Wales.*
- Gordon, Dr W.*—Some Facts and Fallacies about the Climate of South-East Devon. Jan. 10. *S. W.*
- Graham, Dr.*—Ethyl Chloride as an Anæsthetic. Apr. 14. *Bord.*
- Grant, Dr D.*—Some Practical Hints in regard to Diseases of the Throat, Nose, and Ear. Oct. 27. *Met. Cos.*
- Some Practical Points in the Treatment of Diseases of the Throat, Ear, and Nose. Mar. 16. *S. E.*
- Greer, W. J.*—On Five Cases of Operation for Acute Intestinal Obstruction. Nov. 25. *S. Wales.*
- Guthrie, Dr L.*—Mental Overstrain in Children. May 25. *S. E.*
- Hartley, J.*—Why is Overcrowding Dangerous? Oct. 27. *N. E.*
- Havell, Dr.*—On Pulmonary Consumption and the Profession. Apr. 6. *E. A.*
- Heaton, Dr.*—Notes on the X-Ray Treatment of Lupus. Oct. 28. *S. E.*
- The Therapeutics of High-tension Currents. Apr. 4. *S. E.*
- Heaton, G.*—Appendicitis during Pregnancy, and some Peculiarities of the Disease in the Female Sex. Feb. 9. *Birm.*
- Henry, G.*—The General Practitioner and Appendicitis. June 9. *W. Som.*
- Hepburn, Prof.*—Cranio-Cerebral Topography. Feb. 24. *S. Wales.*
- Hichens, Dr.*—On a Case of Actinomycosis of Lung. Oct. 27. *S. Mid.*
- Higginson.*—The Open-air Treatment of Phthisis, Practised in Warwickshire in 1840. Oct. 13. *Birm.*
- Hill, Dr F. R.*—Notes on a Case of Complete Aniridia of both Eyes. Mar. 31. *Bord.*
- Notes on a Case of Disseminated Choroiditis. Mar. 31. *Bord.*
- Notes on a Marked Case of Conical Cornea. Mar. 31. *Bord.*
- Hilliard, H.*—On the Use of Ethyl Chloride in General Practice. Nov. 25. *S.*
- Hinds, Dr.*—On Uterine Fibroids. Nov. 24. *S. E.*
- Hinnell, Dr.*—Notes on Cases of Strychnine Poisoning. Apr. 6. *E. A.*
- Hogarth, Dr B. W.*—On the Diagnosis of Perforated Gastric Ulcer. Oct. 26. *N. Lancs.*
- Hutchison, Dr R.*—On Some Perplexing Symptoms in the Diseases of Children. Mar. 23. *Met. Cos.*
- Johnstone, R. J.*—Notes on a Case of Retroperitoneal Tumour. Oct. 5. *U.*
- Jollis, Dr.*—Notes on a Case of Chlorotic Thrombosis of Cerebral Veins. Nov. 25. *S.*
- Jones, Dr R. L.*—On a Case of Slow Pulse with Epileptiform Convulsions. Feb. 22. *Bath.*
- Some Cases of Joint Swelling Simulating Gout and Rheumatism. Apr. 26. *Bath.*
- Lansdown, R. J. P.*—On a Case of Recto-Urethral Fistula. Mar. 29. *Bath.*
- Lawrence, Dr.*—On the Serum Treatment of Diphtheria. Oct. 27. *N. E.*
- Leith, Prof.*—Evolution in Tuberculosis. May 13. *Shrop.*
- Lindsay, Prof., M.D.*—Notes on the Diagnosis of Malignant Disease of the Lung. Feb. 1. *U.*
- Livingston, Dr G. R.*—Hydrocephalus Obstructing Labour. June 18. *Bord.*
- Livingstone, Dr.*—Notes on a Case of Belladonna Poisoning. May 31. *S.*
- Lloyd, Dr E. J.*—On a Case of Mastoiditis. Nov. 16. *N. Wales.*
- Lucas, R. H.*—Notes on Three Cases of Appendicitis. Apr. 6. *E. A.*
- Luckman, Dr.*—On a Successful Case of Splenectomy. Dec. 14. *N. Lancs.*
- McCleary, Dr G. F.*—The Milk Supply of Copenhagen. Nov. 24. *Met. Cos.*
- M'Mordis, Dr.*—On a Case of Proptosis of the Eyeball. Feb. 1. *U.*

BRITISH MEDICAL ASSOCIATION—*continued.* (Branches.)

- M' Mordie, Dr.*—On a Base of Sporadic Cretinism. Feb. 1. *U.*
- Machardy, Dr.*—Notes on the Escape of Foreign Bodies from the Umbilicus. Oct. 22. *N. Cos. of Scotland.*
- Mackie, A. A.*—On the Inauguration of Provident Medical Services. July 7. *S.*
- Major, Dr.*—Erythema following Paraldehyde. Oct. 27. *S. Mid.*
- Manby, Sir A. R.*—On Three Cases of Rodent Ulcer Treated by Radium. Apr. 6. *E. A.*
- Manson, Sir P.*—The Significance of Fever in Patients from Warm Climates. Nov. 4. *W. Som.*
- Martineau, A. J.*—Notes on a Case of Post-Pharyngeal Abscess. Mar. 22. *S. E.*
- Maybury, Dr. L.*—On a Successful Case of Treatment of Chronic Mastitis by Manipulation. Mar. 28. *S.*
- Menzies, Dr.*—Some Points in Connection with Puerperal Insanity. Nov. 24. *Staff.*
- Mercier, Dr.*—A Problem in Diagnosis. Mar. 9. *S. E.*
- Milligan, Dr.*—Notes of Two Cases of Appendicitis. Oct. 27. *S. Mid.*
- Milward.*—The Examination of the Rectum in Disease. Nov. 10. *Birm.*
- Mitchell, A. B.*—On a Case of Nephrectomy for the Relief of Persistent Hæmaturia. Feb. 1. *U.*
- Moir, Dr.*—On the Vaccination Acts and Prospective Changes. Jan. 24. *Lancs.*
- Morgan, H. M.*—Reminiscences of Forty-Five Years of General Practice. Feb. 23. *Staff.*
- Morris, Dr S. G.*—Midwives Act, 1902. Oct. 25. *S. Wales.*
- Mouillot, Dr.*—The Relations of Spa Doctors with their Brethren. May 11. *Yorks.*
- Murphy, Dr.*—Appendicitis. Nov. 24. *S. E.*
- Murray-Aynsley, Dr.*—Closure of Urethral Fistula by Transplantation of Sheep's Urethra. Oct. 6. *Bord.*
- On a Case of Hermaphroditus Pseudo Masculinus. Oct. 6. *Bord.*
- Nash, Dr J. T. C.*—On the Treatment of Diphtheria. Mar. 2. *E. A.*
- Nuttall, Dr.*—Recent Investigations on Sleeping Sickness and other Protozoal Diseases. Jan. 17. *Cambs.*
- Orton, Dr J.*—The Diagnosis and Treatment of Typhoid Fever. Jan. 5. *Birm.*
- Owen, Dr C. W.*—On a Case of Acute Lead Poisoning. May 30. *N. Wales.*
- Parker, R.*—Remarks on Appendicitis, with and without Operation. Sept. 30. *N. Wales.*
- Pooley, Dr.*—Infiltrating Cancer of Bladder. Nov. 28. *Met. Cos.*
- Potts, Dr W. A.*—The Diagnosis of Feeble-Minded Children. Nov. 10. *Birm.*
- Price, Dr B.*—Notes on a Case of Calculus and Prostatic Outgrowth Removed by Operation. Feb. 7. *Birm.*
- Proud, Dr.*—On Puerperal Eclampsia. Feb. 23. *Bord.*
- Pye-Smith, Dr.*—Auscultation of the Chest and its Relation to General Symptoms. Mar. 9. *S. E.*
- Raven, Dr.*—Some Cases of Pancreatic Disease. Sept. 27. *S. E.*
- Rentoul, Dr J. L.*—Notes on a Case of Pancreatic Infantilism. Oct. 5. *U.*
- Robinson, B.*—On some Troubles in the Breast, Recent and Remote, following Pregnancy. Feb. 16. *Met. Cos.*
- Robson, Dr F.*—A Fatal Case of Sulphonal Poisoning. Mar. 22. *S. E.*
- Rundle, H.*—Notes of a Case of Malformation of the Lower Extremities. Dec. 6. *S.*
- Saundby, Prof.*—On the Indications for Surgical Interference in Diseases of the Stomach. Oct. 13. *Birm.*
- Sinclair, W. W.*—A Family Case of Congenital Night Blindness, with Ophthalmic Changes. Apr. 6. *E. A.*
- The Use and Misuse of Atropine. Apr. 6. *E. A.*
- Smith, Dr S.*—The Treatment of Phthisis and its Present Limitations. Nov. 30. *Bath.*
- Smith, Dr W.*—Details of a Case of Thrombosis of the Left Common Carotid. Feb. 22. *Bath.*
- Snell, Dr E. H.*—Notes on the Treatment of Typhoid Fever. Jan. 5. *Birm.*
- Spanton.*—On Ergophobia. Nov. 24. *Staff.*
- Stanley, Dr D.*—Prognosis in Heart Disease. Nov. 10. *Birm.*
- Steen, Dr.*—Treatment of Mental Cases. Nov. 24. *S. E.*

BRITISH MEDICAL ASSOCIATION—*continued.* (Branches.)

- Stevens, Dr M.*—Difficulties met with in the Diagnosis of Malignant Disease of the Liver. Nov. 25. *S. Wales.*
- Stewart, Dr P.*—The Diagnosis of Tabes Dorsalis in its Earliest Stage. June 8. *S. E.*
- Still, Dr G. F.*—Pitfalls in Diagnosis of Diseases of Children. Nov. 25. *Met. Cos.*
- Stirling, Dr.*—On Appendicitis, Especially in Regard to the Symptoms and Time for Operation. Feb. 10. *Perth.*
- Storar, Dr W. M.*—A Plea for the Larger Recognition of Method in Drug Prescribing. Apr. 5. *U.*
- Sutcliffe.*—Tuberculous Disease of the Knee-joint. Oct. 28. *S. E.*
- Swan, R. H. J.*—Some Points in the Diagnosis of Disease. May 26. *Met. Cos.*
- Taylor, M. R.*—An Unclassified Infectious Disease in Children. Mar. 2. *S. W.*
- On an Anomalous Exanthem. Mar. 2. *S. W.*
- Thomas, W.*—Notes on Patellar Flexion—Dislocation. Mar. 31. *Birm.*
- Toye, Dr.*—Some Practical Points in the Treatment of Heart Disease. Apr. 19. *S. W.*
- Trimble, Dr.*—Tetany as a Complication of Gastric Dilation. Apr. 5. *U.*
- Tunnickiffe, Dr.*—Diet and Drugs in the Treatment of Pulmonary Tuberculosis. Oct. 20. *S. E.*
- Turner, Dr W. D.*—Tuberculosis: its Origin and Extinction. Sept. 29. *Met. Cos.*
- Turrell, Dr.*—Notes on a Case of Chloroform Poisoning. Mar. 17. *Oxf.*
- Wells, Dr T. S.*—On the Substitute Feeding of Infants. May 17. *Dorset.*
- White, F.*—Treatment of some Common Diseases of the Ear, with a Special Reference to Otcotomy. Jan. 12. *Birm.*
- Whitehead.*—Notes on a Case of Acute Cerebral Disease. Oct. 15. *Yorks.*
- Wilkin, G. C.*—On the Thorough and Systematic Removal of Adenoids in Children. Jan. 10. *S. W.*
- On Syphilitic Laryngitis Associated with Gummatous Consolidation of Apex of Lung. Mar. 2. *S. W.*
- Williams, Dr A. W.*—Notes of Cases of Tinea Tonsurans Treated by Exposure to the X-Rays. Apr. 26. *S. E.*
- Williams, Dr C.*—Notes on Twelve Successful Cases of Paracentesis of Chest. Mar. 7. *S. Wales.*
- Williams, Dr D. J.*—Conservative Surgery of the Fingers. Oct. 25. *S. Wales.*
- Wilson, Dr S.*—The Value of an Abnormal Rise in the Level of the Diaphragm as a Guide to the State of the General Circulation. Mar. 9. *Birm.*
- Wood, Dr C. R.*—Automobiles in Medical Practice. Nov. 30. *Bath.*
- Wood, R.*—On Adenoids. May 13. *Shrops.*
- Woolcombe, W.*—Post - Peritoneal Rupture of Abdominal Aneurysms. Jan. 10. *S. W.*

SOCIETY OF ANÆSTHETISTS,

20 HANOVER SQUARE, W. (FOUNDED 1893.)

Officers.—*President:* E. Willett. *Secretaries:* Mr Crouch and Dr Blumfield.**Membership.**—The Entrance Fee is half a guinea, and the Subscription half a guinea annually.**Meetings.**—The Meetings are held on the first Friday in the months of November, December, February, March, and April, at 8.30 P.M.*Discussion* on the Vernon-Harcourt Inhaler, opened by Dr E. Willett. Dec. 2.

THE BRITISH BALNEOLOGICAL AND CLIMATOLOGICAL SOCIETY,

20 HANOVER SQUARE.

Officers.—*President*: W. Bowen Davies, M.R.C.S., L.R.C.P. *Hon. Secretaries*: S. Sunderland, M.D., 11 Cavendish Place, Cavendish Square, W.; H. Shirley-Jones, M.R.C.S., Droitwich.

Meetings.—The Annual Meeting and Ordinary Meetings are held on specified dates.

Membership.—Annual Subscription, 10s. 6d.

Papers read and communications made during Session 1904–1905, and published in the "Transactions" or in "The Journal of Balneology and Climatology," price 2s. quarterly (Bale).

Buckley, Dr C. W.—Climatology from a Medical Standpoint.

Duckworth, Sir D., M.D., F.R.C.P.—Remarks on British Health Resorts.

M'Clure, Dr.—The Climatology of the Sahara.

Newton, R. C.—Deep Breathing.

Pearse, W. H.—Phthisis Viewed in Relation to Dartmoor, to Devon-

shire in General, and to Constitution.

Taylor, Dr J. M.—How to Postpone the Degenerative Effects of Old Age.

Weber, L., M.D.—The Syphilitic Affections of the Heart and Aorta.

Williams, L., M.D., M.R.C.P.—Voyages d'Études Médicales.

CLINICAL SOCIETY OF LONDON,

20 HANOVER SQUARE, W. (FOUNDED 1867.)

Officers.—*President*: H. H. Clutton, M.C. *Hon. Secretaries*: W. G. Spencer, M.S.; A. E. Garrod, M.D.

Meetings.—Second and fourth Fridays in each month, from October to May inclusive, at 8.30 P.M. Clinical Evenings at 8 P.M. The Anniversary Meeting takes place on the fourth Friday in May.

Membership.—Resident Members: Entrance Fee, £2, 2s.; Annual Subscription, £1, 1s. Non-Resident Members: Entrance Fee, £1, 1s.; Annual Subscription, 10s. 6d.

List of Principal Papers read during Session 1904–1905.

Abrahams, Dr B.—Arthritis Deformans and its Allies. Mar. 10.

Barker, A. E.—Condition of the Small Intestine after Extensive Enterectomies. Mar. 24.

Berry, J.—Syphilitic Destruction of Nose, Treated by Plastic Operation. May 26.

Dalton, Dr N., and *A. D. Reid.*—Examination of Stomach by X-Rays and Tube Filled with Subnitrate of Bismuth. Mar. 24.

Drew, D.—Stenosis of Ureter. Mar. 24.

Duckworth, Sir D.—Diabetes Mellitus Accompanied by Xanthoma and Fatty Necrosis of Pancreas. May 26.

Harris, Dr W., and *V. W. Low.*—Treatment of Infantile Paralysis of the Shoulder by Nerve Grafting. Oct. 14.

Keyser, C. R.—Congenital Elevation of Scapula. Nov. 11.

Lett, H., and *J. Hutchinson, jun.*—Fracture of the Astragalus. May 12.

Lucas, C.—Accidental Electrocutation Causing Extensive Gangrene of Extremities. Jan. 18.

Marsh, Prof. H.—A Joint Affection, Possibly due to Malaria. Apr. 14.

—Three Cases of Intermittent Hydrops of the Joints. Apr. 14.

Phillips, Dr S., and *B. H. Spilsbury.*—Lobar Pneumonia during Enteric Fever. May 12.

- Phillips, Dr S., and B. H. Spilsbury.* —Primary Adrenal Carcinoma of Liver. May 26.
Spencer, W. G.—Inflammation of Liver Treated Surgically. Oct. 14.
Steward, F. J.—Two Cases of Hydronephrosis due to Movable Kidneys. Apr. 14.
Walker, Dr T. J.—Acute Ascending Paralysis in Cases of Chronic Cystitis. Jan. 13.
Wallace, C. S.—Intussusception in Children. Dec. 9.
White, Dr H.—Notes on a Case of Rheumatoid Arthritis. Mar. 10.

DERMATOLOGICAL SOCIETY OF LONDON,

11 CHANDOS STREET, CAVENDISH SQUARE, W.

(FOUNDED MAY 1882.)

Officers.—*Joint Hon. Secretaries:* A. Whitfield, M.D., 21 Bentinck Street, W.; E. G. Little, M.D., 61 Wimpole Street, W.

Meetings.—Second Wednesday in the month, from October to July inclusive, 5.15 P.M. The Annual Meeting takes place the second Wednesday in May.

Membership.—Entrance Fee, 21s. ; Annual Subscription, 21s.

The Transactions and Papers read are published monthly in the "British Journal of Dermatology," 1s. monthly (Lewis).

EPIDEMIOLOGICAL SOCIETY OF LONDON,

11 CHANDOS STREET, CAVENDISH SQUARE, W. (FOUNDED 1850.)

Officers.—*President:* J. F. W. Tatham, M.A., M.D., F.R.C.P. *Hon. Secretaries:* H. T. Bulstrode, M.A., M.D., Local Government Board, Whitehall; W. H. Hamer, M.A., M.D., F.R.C.P., London Council, Spring Gardens, S.W.

Meetings.—Third Friday in each month, from November to May, at 8.30 P.M.

Membership.—No Entrance Fee ; Annual Subscription, 21s.

Publication.—*Transactions* for 1905, 6s.

List of Papers read during Session 1904–1905.

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| <i>Boycott, Dr A. E.</i> — Ankylostomiasis. Mar. 17. | other and to Human Disease. Feb. 17. |
| <i>Buchanan, Dr G. S.</i> —The Spread of Smallpox occasioned by Smallpox Hospitals during the Epidemic Period 1900 to 1904. Apr. 28. | <i>Nuttall, Dr G. H. F.</i> —Ticks and Tick-Transmitted Diseases. Dec. 9. |
| <i>Longstaff, Dr G. B.</i> —A Contribution to the Etiology of Rheumatic Fever. Jan. 20. | <i>Ransome, Dr A.</i> —Phthisis Rates: their Significance and their Teaching. May 19. |
| <i>McWeeney, Dr E. J.</i> —The Relation of the Parasitic Protozoa to each | <i>Whitelegge, Dr B. A.</i> —The Epidemiological Aspects of Industrial Diseases. Nov. 18. |

THE BRITISH GYNÆCOLOGICAL SOCIETY,

20 HANOVER SQUARE, W. (FOUNDED DEC. 27, 1884.)

Officers.—*President*: W. Alexander, M.D. *Hon. Secretaries*: S. J. Aarons, M.D., M.R.C.P., 14 Stratford Place, W.; S. Savage.

Meetings.—Second Thursday in each month, from October to July inclusive, at 8 P.M. Anniversary Meeting second Thursday in January.

Membership.—Annual Subscription, 21s.

Publication.—*The British Gynæcological Journal*, issued quarterly, 8s. 6d. per number.

Principal Papers read during Session 1904–1905.

Alexander, Dr W.—Adenoma of the Endometrium. Dec. 8.
Jacobs, Prof. C—Surgical Intervention in Cancer of the Cervix Uteri. Apr. 13.

Macnaughton-Jones, Dr.—Accessory Fallopian Tubes and their Relation to Broad Ligament Cysts and Hydrosalpinx. July 14.

Martin, C.—Treatment of Intractable Prolapse by Extirpation of the Uterus and Vagina. Oct. 13.

Parsons, Dr J. J.—On the Choice of Treatment for Fibromyoma of the Uterus. Mar. 10.

HARVEIAN SOCIETY OF LONDON,

STAFFORD ROOMS, TITCHBORNE STREET, EDGWARE ROAD, W.

(FOUNDED 1831.)

Officers.—*President*: C. B. Lockwood, F.R.C.S. *Hon. Secretaries*: P. L. Daniel, 5 Devonshire Street, Portland Place, W.; and H. J. Macevoy, 41 Buckley Road, Brondesbury, N.W.

Meetings.—Fortnightly, on Thursdays, from October to May inclusive, at 8.30 P.M. The Annual Meeting takes place in January.

Membership.—Annual Subscription, 10s. 6d.; Life Composition, £6, 6s.

Principal Papers read during Session 1904–1905.

Barton, Dr G. H.—The Place of Ethyl Chloride as a General Anæsthetic. Nov.

Caruley, Dr E.—Convulsions in Childhood. Apr.

Clogg, H. S.—Appendicitis in Childhood. Apr.

English, T. C.—Unsuspected Gallstones. Nov.

Evans, E. L.—Anterior Metatarsalgia: Notes on Seven Cases. Feb.

Kedley, C. B.—Plastic Surgery. Oct.

Mackenzie, Dr H.—Treatment of Tuberculosis. Dec. 8.

Morris, M.—Some Modern Therapeutic Methods in Dermatology; with Exhibition of Cases treated by the X and Finsen Rays. Mar. 9.

Sutherland, Dr G. A.—Clinical Observations in Lobar Pneumonia. Feb.

Walsham, Dr H.—On the Use of the Röntgen Rays in the Diagnosis of Diseases of the Chest. May 11.

HUNTERIAN SOCIETY,

LONDON INSTITUTION, FINSBURY CIRCUS, E.C. (FOUNDED 1819.)

Officers.—*President*: F. J. Smith, M.D., F.R.C.P. *Secretaries*: J. H. Targett; T. G. Lyon, M.D.

Meetings.—Second and fourth Wednesdays in each month, from October to April inclusive, at 8.30 P.M. The Anniversary Meeting takes place in February.

Membership.—Annual Subscription, 21s. for Resident; 10s. 6d. for Non-Resident Fellows.

Proceedings during Session 1904–1905.

Discussion on Influenza, opened by Prof. C. Allbutt and Dr F. Parsons. Apr. 26.

WEST KENT MEDICO-CHIRURGICAL SOCIETY,
ROYAL KENT DISPENSARY, GREENWICH. (FOUNDED 1856.)

Officers.—*President*: Chisholm Williams, F.R.C.S.E. *Secretary*: W. H. Payne, M.R.C.S., L.R.C.P., 8 Vesta Road, Brockley, S.E.

Meetings.—First Friday in each month, from October to May inclusive (but excluding January), at 8.45 P.M. The Annual Meeting takes place in October.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.; Life Membership, £5, 5s.

Principal Papers read during Session 1904–1905.

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| <i>Annis, E. G.</i> —Immunity against Disease. Feb. 3. | <i>Turner, F. M.</i> , M.D.—Treatment of Scarlet Fever, Diphtheria, and Enteric Fever at the South-eastern Hospital. Nov. 4. |
| <i>Bland, S.</i> , F.R.C.S.—Abdominal Pregnancy in Women, Cats, Dogs, and Rabbits. Dec. 2. | <i>Williams, C.</i> , F.R.C.S.E.—Corns and Bunions. May 5. |
| <i>Low, H.</i> , M.B., C.M.—Electro-Therapeutics. Apr. 7. | — Angular Curvature. Oct. 7. |

LARYNGOLOGICAL SOCIETY OF LONDON,
20 HANOVER SQUARE.

Officers.—*President*: C. J. Symonds, F.R.C.S. *Secretaries*: P. de Santi, F.R.C.S., 15 Stratford Place, W.; H. J. Davis, M.D., 8 Portman Square, W.

Meetings.—First Friday in each month, from November to June inclusive, at 5 P.M. The Annual Meeting is held in January.

Membership.—Entrance Fee, One Guinea; Annual Subscription, One Guinea.

Publication.—*Proceedings*, published monthly after each Meeting.

The Meetings are chiefly devoted to the Exhibition and Discussion of Clinical Specimens.

MEDICO-LEGAL SOCIETY OF LONDON,
22 ALBEMARLE STREET, PICCADILLY.

Officers.—*President*: Sir W. J. Collins, M.D., L.C.C. *Secretaries*: R. Henslowe-Wellington, Barrister-at-law, 5 Essex Court, Temple, N.W.; S. B. Atkinson, M.D., 4 Ewing Street, Bow, E.

Membership.—Annual Subscription, 10s. 6d.

Meetings.—Not less than four times a year, on the second Tuesday in October, December, February, and June, and at such other dates as the Council may from time to time determine. The Annual Meeting is held in October.

Publication.—*Transactions*, Vol. I., 7s. 6d.

List of Papers read during Session 1904-1905.

- Appel, Miss L., M.B.*—Hindu Method of Considering Problems Involving Responsibility. Nov. 8.
Atkinson, Dr S. B.—Accidents, Definitions of. Nov. 8.
Bateman, Dr A. G.—Privileged Communications and Professional Secrecy. Jan. 17.
Cowburn, Dr A. D.—The Law Relating to the Criminal Responsibility of the Insane. Jan. 17.
Rentoul, Dr R. R.—Degeneration: its Causes and Prevention. Dec. 13.
Shaw, Dr J. C.—An Obscure Form of Alcoholism Involving Irresponsibility. Nov. 8.
Walton, The Hon. Sir J.—Notes on the Law of Evidence. Apr. 4.

LIFE ASSURANCE MEDICAL OFFICERS' ASSOCIATION,

11 CHANDOS STREET, CAVENDISH SQUARE, W.

Officers.—*President*: Sir Dyce Duckworth, M.D., LL.D. *Hon. Secretaries*: Dr A. T. Davies, 23 Finsbury Square, E.C.; Dr F. Parkes Weber, 19 Harley Street, W.

Meetings.—First Wednesday in January, March, May, and November, at 8.30 P.M. The Anniversary Meeting is in February or March.

Membership.—Legally qualified medical men only eligible; Annual Subscription, 21s. Town, and 10s. 6d. Country Members.

List of Principal Papers read during Session 1904-1905, all of which have been published.

- Eccles, M'A., and — Gast.*—Hernia in Relation to Life Assurance. May 17.
Gowers, Sir W. R., M.D., F.R.S.—Insanity and Epilepsy in Relation to Life Assurance. Oct. 5.
Taylor, Dr G., and Dr L. Barlow.—Some Statistics Bearing on the Increase of Cancer. Jan. 13.

WEST LONDON MEDICO-CHIRURGICAL SOCIETY,

WEST LONDON HOSPITAL, HAMMERSMITH, W. (FOUNDED 1882.)

Officers.—*President*: C. M. Tuke. *Hon. Secretaries*: Dr Andrew Elliot, 11 Upper Berkeley Street, W.; Dr W. H. Walter, Hambledon Croft, Windmill Road, Brentford.

Meetings.—First Friday in each month, from October to July, at 8.30 P.M. Annual Meeting in July.

Membership.—No Entrance Fee; Annual Subscription, 5s.

List of Papers read during Session 1904-1905, and published in the "West London Medical Journal," quarterly, 1s. 6d.

- Evans, J. H.*—Certain Intra- and Extra-Cranial Lesions Produced by Injury at Birth. May 5.
Goodhart, Dr J. F.—Cavendish Lecture: Disease of the Heart. June 23.
Leaf, C. H.—The Clinical Causes of Cancer of the Breast. Mar. 3.
McCann, T. J.—The Diagnosis of Uterine Cancer. Feb. 3.
Malcolm, J. D.—Extra-Uterine Foetation. Feb. 3.
Morison, Dr A.—On Boldness in the Treatment of certain Phases of Pneumonia. Mar. 3.
Russell, Dr A. E.—The Diagnosis of Acute Abdominal Disease. Dec. 2.
Stoddart, Dr W. H. B.—The Recognition and Treatment of Mental Disorder in Private Practice. June 2.
Taylor, Dr J.—Some Points in the Treatment of Epilepsy and Allied Disorders. May 5.

INCORPORATED SOCIETY OF MEDICAL OFFICERS OF HEALTH,

1 UPPER MONTAGUE STREET, RUSSELL SQUARE, W.C.

Officers.—*President*: Sir Shirley Murphy. *Hon. Secretaries*: Herbert Jones, Bankside, Hereford; J. Priestley, 333 Kennington Road. *Executive Secretary*: W. A. Lawton.

Meetings.—Second Friday October (Annual), November, January to April. There are ten branches, each of which has regular Meetings.

Membership.—No Entrance Fee; Annual Subscription, 21s.

Publication.—*Public Health*, monthly, 1s. 6d. to Non-Members.

List of Papers read during Session 1904-1905.

Brunton, Sir L., M.D.—The Report of the Inter-Departmental Committee on Physical Degeneration. Jan. 6.

Delépine, S., M.Sc.—The Spread of Anthrax in Great Britain. Mar. 10.

Fosbrooke, G. N., D.P.H.—The Ad-

ministration of the Midwives' Act. Apr. 14.

Heron, G. A., F.R.C.P.—Instruction in Hygiene in Universities and Schools—a Proposal. Nov. 11.

M'Cleay, G. F., M.D.—The Reform of the Milk Supply. Feb. 10.

MEDICAL OFFICERS OF SCHOOLS' ASSOCIATION,

11 CHANDOS STREET, CAVENDISH SQUARE. (FOUNDED 1884.)

Officers.—*President*: Sir Thomas Barlow. *Hon. Secretaries*: Dr G. E. Hale, 39 High Street, Eton; Dr F. E. Batten, 33 Harley Street, W.

Meetings.—Twice or thrice a year. The Anniversary Meeting takes place in May or June.

Membership.—Annual Subscription, 10s. 6d.

[No Return.]

THERAPEUTICAL SOCIETY,

APOTHECARIES HALL.

Officers.—*President*: Sir L. Brunton, LL.D., D.Sc., M.D., F.R.C.P. *Secretaries*: T. E. B. Brown, C.I.E., M.D., 185 Willesden Lane; H. French, M.D., M.R.C.P., 26 St Thomas Street.

Objects.—The advancement of knowledge in Pharmacology and Therapeutics, including not only drugs, but other modes of treatment.

Meetings.—Ordinary General Meetings on one Tuesday afternoon in each Winter month at 4.30 p.m. The Annual Meeting is held in October.

Membership.—Annual Subscription, London: Fellows, 10s. 6d.; Provincial Fellows, 5s.; Corresponding Members must either read a paper once a year or pay 5s. annually; Life Composition, £5, 5s. and £2, 12s. 6d.

Publication.—*Transactions*, Second Series, 5s.

*List of Papers read during Session 1904–1905 ; those marked *
have been published.*

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| <i>Brown, J. E. B.</i> —On Herbars and Herbaria. Feb. 18.* | peutical Applications of the Continuous Current. Oct. 25. |
| <i>Bryant, J. H., M.D.</i> —Alginoid Iron and its Therapeutical Use. Apr. 18.* | <i>Herschell, G., M.D.</i> —On the Application of Drugs to the Interior of the Stomach by Means of Sprays or Nebulæ. Apr. 18. |
| <i>Burnet, J., M.B.</i> —Therapeutics of Asperinn and Mesotan. Mar. 28.* | <i>Hutchison, R., M.D.</i> —On the Treatment of Exophthalmic Goitre by Iodo-ether Injections. Mar. 28. |
| <i>Caley, J. A. H., M.D.</i> —On Action and Uses of Bromide Salts. Jan. 24. | <i>Moore, C. G. E.</i> —On Brandy. Nov. 22. |
| <i>Crichton, G., M.D.</i> —On the Metro System. Oct. 23. | <i>Sharp, G., M.D.</i> —On <i>Strychnos toxifera</i> , Benth, and other Paralyzers of the Motor Nerve Endings. Nov. 22. |
| <i>Crompton, Miss F.</i> —On Phagedænic Ulcer. July 21. | <i>Tirard, N., M.D.</i> —Some Clinical Observations with New Remedies. Dec. 20. |
| <i>Dixon, E., M.D.</i> —On the Action of Alcohol on the Heart. Jan. 29. | |
| <i>Harries, A., M.D.</i> —On some Thera- | |

**ASSOCIATION OF MEDICAL DIPLOMATES
OF SCOTLAND.**

Officers.—*President*: Claude St Aubyn-Farrer. *Secretary*: David Walsh, M.D., 8A Hanover Street, London, W. *Treasurer*: Dr William Bell.

Meetings.—Monthly, at 11 Chandos Street, Cavendish Square, London, W. Annual General Meeting, June.

Membership.—Annual Subscription, 10s. 6d.

*List of Papers read during Session 1904–1905, and published in the
“Medical Press and Circular.”*

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| <i>Farrer, Dr C. St A., Dr D. Walsh, and Dr Hardyman.</i> —The Exclusion of Scotch and Irish Diplomates from most of the Large London and many Provincial Hospital Appointments. | <i>Powell, Dr F.</i> —Rheumatism. |
| <i>Hawthorne, Dr.</i> —Rheumatism. | <i>Stephenson, S.</i> —Rheumatism. |
| <i>Morrison, Dr A.</i> —Rheumatism. | <i>Walsh, Dr D.</i> —Rheumatism. |
| | —The Proposed Change of the Title Licentiate of the Royal College of Surgeons of Edinburgh to that of Member. |

**MEDICO-PSYCHOLOGICAL ASSOCIATION OF
GREAT BRITAIN AND IRELAND,**

11 CHANDOS STREET, W. (FOUNDED 1841; INCORPORATED 1895.)

Officers.—*President*: T. Outtersen Wood, M.D. *Secretary*: Robert Jones, M.D., Claybury, Woodford Bridge, Essex.

Meetings.—Quarterly, as may be fixed. The Annual Meeting is held in July.

Membership.—Annual Subscription, 21s.; no Entrance Fee.

Papers read are published in the “Journal of Mental Science,” price 20s. per annum.

METROPOLITAN POLICE SURGEONS' ASSOCIATION, NEW SCOTLAND YARD.

Officers.—*President*: T. Holmes, F.R.C.S. *Hon. Secretaries*: A. F. L. Dorin, M.R.C.S., 344 Clapham Road, S.W.; F. W. Spurgin, 35 Welbeck Street, W.

Meetings.—Are held on the third Thursday in each month, at 4 p.m.

Membership.—Annual Subscription, 5s.

NEUROLOGICAL SOCIETY OF THE UNITED KINGDOM,

11 CHANDOS STREET, CAVENDISH SQUARE, W.

Officers.—*President*: Sir John Batty Tuke, M.D., M.P. *Secretaries*: F. E. Batten, M.D., F.R.C.P., 33 Harley Street, W.; Leonard G. Guthrie, M.D., F.R.C.P., 15 Upper Berkeley Street, W.

Meetings.—Six or more annually, on Thursdays, at 8.30 p.m. The Annual Meeting is held in January.

Membership.—No Entrance Fee; Annual Subscription, 21s., for which each Member receives the Journal *Brain*.

The Papers read during each year are published in the organ of the Society, "Brain," Quarterly, 4s. (Macmillan).

OBSTETRICAL SOCIETY OF LONDON,

20 HANOVER SQUARE, W. (FOUNDED 1858.)

Officers.—*President*: W. R. Dakin, M.D. *Hon. Secretaries*: M. Handfield-Jones, M.D.; Robert Boxall, M.D.

Meetings.—First Wednesday in each month, from October to July inclusive, at 8 p.m. The Annual Meeting takes place in February.

Membership.—Annual Subscription, 21s.; Life Composition, 15 Guineas.

List of Papers read during Session 1904-1905, and published in "Transactions," 25s.

Boxall, Dr R.—Mortality in Childbed in Hospital and General Practice. May 3.

Dakin, Dr W. R.—On the Present Teaching of Practical Midwifery in England. Mar. 1.

Foulerton, A. G. R., and Dr V. Bonney.—An Investigation into the Causation of Puerperal Infections. Jan. 4.

Kerr, Dr J. M. M.—Cæsarean Section in Cases of Contracted Pelvis. Oct. 5.

Leicester, Surg. - Capt. J. C. H.—Eclampsia, with Death from General Septic Peritonitis due to Rupture of an Abscess in the Spleen. June 7.

Lockyer, Dr C.—The Corpus Luteum and Compound Lutein Cystomata found in Association with Vesicular Mole and Choric-Epithelioma. Apr. 5.

Pembrey, Dr M. S., and G. Bellingham-Smith.—On Sacs containing Fœtuses lying free in the Peritoneal Cavity of a Rabbit. July 6.

Spencer, Dr H. R.—Three Cases of Cancer of the Cervix Complicating Labour in Advanced Pregnancy. Nov. 2.

Sturmer, Lieut.-Col. A. C., I.M.S.—Abdominal Gestation. Dec. 7.

Tate, Dr W.—Three Cases of Intestinal Obstruction following Operations for Fibroid Tumour of Uterus. Dec. 7.

ODONTOLOGICAL SOCIETY OF GREAT BRITAIN,

20 HANOVER SQUARE, W. (INSTITUTED 1856.)

Officers.—*President*: Arthur S. Underwood. *Hon. Secretary*: George Hern, 7 Stratford Place, W.

Meetings.—Fourth Monday in each month, from October to June inclusive. The Annual Meeting takes place in June.

Membership.—For Resident Members: Entrance Fee, £3, 3s.; Annual Subscription, £2, 2s. Non-Resident Members: Entrance Fee, £2, 2s.; Annual Subscription, £1, 1s.

Publication.—*Transactions*.

Papers read from June 1904 to June 1905.

Ackery, J.—Cases of Extreme Malposition and Retarded Eruption of Incisor Teeth. Apr.

Carter, T.—Evolution of the Vertebrate Skull. Mar.

Colyer, J. F.—Recent Additions to the Odontological Museum. Oct.

Hopewell-Smith, A.—Rare Anomalies of the Teeth. Feb.

Kellock, J. H.—Actinomycosis of the Mouth and Face. Nov.

Maggs, W. A.—Antiseptic Alveolar Plugs. June.

Miller, Prof.—Studies in the Anatomy of the Teeth. May.

Peasley, R. D.—The Relationship between Dental and General Diseases. Jan.

THE OPHTHALMOLOGICAL SOCIETY OF THE UNITED KINGDOM,

11 CHANDOS STREET, CAVENDISH SQUARE, W.

Officers.—*President*: J. Tweedy, P.R.C.S. *Secretaries*: Dr Russell, 44 Wimpole Street, W.; C. D. Marshall, 112 Harley Street, W.

Meetings.—Monthly, on Thursdays from October to June inclusive (excepting February and April). The Annual Meeting takes place on the first or second Friday in July.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.; Life Composition, 20 Guineas.

Publication.—*Transactions*, Vol. XXIV.

PATHOLOGICAL SOCIETY OF LONDON,

20 HANOVER SQUARE, W. (FOUNDED 1846.)

Officers.—*President*: Sir John Burdon Sanderson, Bart., M.D., F.R.S. *General Secretary*: S. G. Shattock, F.R.C.S.

Meetings.—First and third Tuesdays in each month, from October to May. The Annual Meeting takes place in May.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.

List of Principal Papers read during Session 1904–1905.

Adams, Dr C. E.—Carcinoma of the Left Adrenal. Apr. 4.

Broadbent, Dr J. F. H.—Toxæmic Jaundice. Oct. 18.

Brodie, Dr T. G., F.R.S., and Dr W. E. Dixon.—Alterations in the

Systemic Circulation which Tend to Produce Engorgement of the Lung Capillaries. Dec. 20.

Bullock, Dr W.—Variations in the Opsonic Index in Cases of Tuberculosis. Jan. 17.

- Bulloch, Dr W.*, and *Dr J. H. Sequeira*.—The Relation of the Adrenals to External Sexual Characters. Feb. 7.
- Buzzard, Dr E. F.*—Myasthenia Gravis. May 16.
- Dudgeon, L. S.*—Acute Lymphæmia. Nov. 1.
- and *Dr A. E. Russell*.—Grafting of the Thymus Gland in Animals. Dec. 20.
- Halliburton, Prof.*—Recent Work on Proteid Chemistry and Proteid Diet. Mar. 7.
- Horder, Dr T. G.*—Two Cases of Influenzal Endocarditis. Apr. 18.
- A Case of Gonorrhœal Endocarditis. Apr. 18.
- Joseph, Dr F. H.*—Fugent: a New Stain. Jan. 17.
- Klein, Prof. E.*, F.R.S.—A Series of Observations upon the Vitality of the Typhoid Bacillus in Shellfish. Apr. 18.
- The Occurrence of *Bacillus enteritidis*, Gärtner, in Cow's Milk. Jan. 17.
- Lorand, Dr A.*—Blood Glands as Pathogenic Factors in the Production of Diabetes and Obesity. Feb. 21.
- Macdonald Dr G. G.*—Origin and Course of the Opsinins in Acute Pneumonia. Jan. 17.
- Melland, Dr C. H.*—Leucocythæmia, with Change of Type from Spleno-Medullary to Lymphatic. Feb. 21.
- Michels, Dr E.*, and *Dr P. Weber*.—Obliterative Arteritis. Apr. 4.
- Pakes, Dr W. C. C.*, and *Dr F. H. Joseph*.—The Use of Acid Media in the Isolation of the Plague Bacillus. Jan. 17.
- Scott, Dr S. G.*—Subacute Atrophy of the Liver. Apr. 4.
- Shattock, S. G.*—A Prehistoric Vesical Calculus. Apr. 4.
- Thiele, Dr F. H.*—Osteoplastic Carcinoma in Bone. Apr. 4.
- Tuke, C. M.*, M.R.C.S.—Presidential Address: The Treatment of Insanity from very Early Times. Oct. 7.
- Walker, C. E.*—Spermatogenesis and the Cytology of Malignant Growths. July 2.
- Wallace, C. S.*—Effects of Vasectomy and Castration upon the Prostate. Oct. 18.
- Wilcox, Dr.*—The Chemical Estimation of Active Hydrochloric Acid in the Gastric Contents. Feb. 7.
- Wright, Prof. A. E.*—Effects of Tuberculin Inoculation in Cases of Tuberculosis. Feb. 7.

THE LISTER INSTITUTE OF PREVENTIVE MEDICINE,

CHELSEA GARDENS, CHELSEA BRIDGE ROAD, S.W.
(INCORPORATED 1891.)

Officers. — *President*: The Lord Lister, P.C., O.M., F.R.S. *Chairman of the Governing Body*: Sir Henry E. Roscoe, F.R.S. *Director*: Dr Charles J. Martin, F.R.S.

Objects.—(1) To investigate the means of preventing and curing the various infective diseases of men and animals, and to provide a place where researches may be carried on for this purpose. (2) To provide instruction in methods of research in preventive medicine to medical officers of health, medical practitioners, veterinary surgeons, and advanced students. (3) To prepare and to supply to those requiring them such special, protective, and curative materials as have already been found, or shall in future be found, of value.

Membership.—Donors of £100 or more, and Annual Subscribers of £5 or more.

THE ROYAL INSTITUTE OF PUBLIC HEALTH,

RUSSELL SQUARE, W.C.

(FOUNDED 1886 ; INCORPORATED 1892.)

Patron.—His Majesty the King.

Officers.—*President*: The Rt. Hon. Lord Strathcona and Mount Royal, G.C.M.G. *Secretary*: J. Cantlie, M.B., D.P.H. *Principal Professor*: W. R. Smith, M.D., D.Sc., F.R.S., Barrister-at-Law.

Meetings.—The Congress in 1906 will be held in Cork. *President*: Prof. B. C. A. Windle, M.D., LL.D., F.R.S., President of Queen's College, Cork.

Membership.—Annual Subscription, 42s.

Publication.—*Journal of Preventive Medicine*, 2s. monthly.

THE ROYAL SANITARY INSTITUTE

(With which is incorporated the Parkes Museum),

PARKES MUSEUM, MARGARET STREET, REGENT STREET, W.

(FOUNDED 1876 ; INCORPORATED 1888.)

Officers.—*President*: His Grace the Duke of Northumberland, K.G. *Chairman of Council*: Colonel J. Lane Notter, R.A.M.C. *Treasurer*: T. W. Cutler, F.R.I.B.A. *Registrar*: A. Wynter Blyth, M.R.C.S. *Secretary*: E. White Wallis, F.S.S., Parkes Museum, Margaret Street, W.

Meetings.—Second Wednesday in December and February, second Saturday in March and April. Annual General Meeting, March. Lectures and Demonstrations for Sanitary Officers and for Meat Inspectors are given in the Spring and Autumn, and a Course of Training in Practical Hygiene for School Teachers is arranged. Sessional meetings are held in various centres in the Provinces in the Spring and Autumn, and particulars of these are announced in the *Journal*. A Congress for the consideration of subjects relating to Hygiene, and an Exhibition of Sanitary Apparatus and Appliances, are held by the Institute annually in different provincial centres.

Examinations.—Examinations are held twice a year in London and in various provincial centres in Practical Sanitary Science, in Practical Hygiene for School Teachers, for Inspectors of Nuisances, and for Inspectors of Meat and other Foods. The Examination for Inspectors of Nuisances has also been extended to the Colonies, and Boards of Examiners have been formed in Canada, New South Wales, Queensland, Western Australia, British South Africa, and Hong Kong and South China.

Membership.—For Members the Annual Subscription is £2, 2s. and for Associates £1, 1s.; but Members and Associates holding certain qualifications only pay half the ordinary rate of Subscription.

Publication.—*Journal*, published monthly, price 1s.

Papers and Lectures read during 1904, and published in the "Journal,"
Vol. XXV.

Armour, Miss M.—Milk Depôts for Children.

Armstrong, J. G. D.—The Past, Present, and Future Conditions of

Housing under the Public Health Acts.

Bashford, E. F.—The Comparative Study of Cancer.

- Black, Miss C.*—A Bill to Regulate Home Work.
- Bondfield, Miss M. G.*—The Effects on Health of Women's Employment in Shops.
- Brabrook, E. W.*—On the Recording of Observations on Physical Conditions in Schools.
- Buchanan, R. M.*—*Bacillus typhosus* Isolated from Shell-Fish in Connection with an Outbreak of Typhoid Fever.
- Butler-Hogan, J. F.*—School Hygiene: A Plea for the Compulsory Teaching of the Elementary Principles of Hygiene in all Public Schools, and a Brief Outline of what might be Taught.
- Chalmers, A. K.*—Preliminary Notes of an Inquiry into the Physique of Glasgow School Children.
- The Mortality of Occupation.
- Chisholm, Sir S., Bart.*—The Housing Problem and the Municipality.
- Clarke, J. H.*—A Plea for the Consolidation and Amendment of the Public Health Acts.
- Clarke, J. J.*—Notes for a Discussion on the Cause of Small-Pox.
- Clowes, Prof. F.*—Physics, Chemistry, and Biology.
- Cobbett, L.*—The Progress and Prevention of Diphtheria.
- Cochrane, Miss C.*—Cottages for Agricultural Labourers.
- How Women as Councillors may Improve Sanitation and Housing in Rural Districts.
- Cooper, C. H.*—The Card Index as Applied to the Work of the Local Authorities.
- Crawford, R.*—The Municipality and the Plumber.
- Crowley, R. H.*—School Attendance and the Spread of Diphtheria.
- Cullen, A.*—The Construction of Hospitals.
- Davies, Lieut.-Col. A. M., and W. C. Tyndale.*—Sewage Disposal on Chalk Soils.
- Dick, Miss A. M.*—The Work of Women as Sanitary Inspectors.
- Douglas, L. M.*—Public Abattoirs and the Utilization of Condemned Carcasses.
- Dunbar, Prof. Dr.*—Standards of Purity for Sewage Effluents.
- Edgar, Prof. J.*—The Hygiene of School Life.
- Edwards, A. H.*—Report on Examination of Ears, Nose, Throat, Chest, Abdomen, etc., of 750 School Children in Glasgow.
- Evans, Miss E. M.*—The Responsibilities of Municipal Authorities and County Councils with regard to the Development of School Sanitation.
- Fenwick, Mrs B.*—State Registration of Trained Nurses.
- Fowler, G. J.*—Recent Experience in the Treatment of Manchester Sewage.
- Fyfe, P.*—What the People Sleep on.
- Gardiner, Miss B.*—The Woman's Part in the Cause and Prevention of Pulmonary Tuberculosis.
- Glaister, Prof. J.*—Sanitary Science and Preventive Medicine.
- Graham, J.*—Some Particulars of Adjustable School Furniture, etc., first seen in Continental Schools.
- Greenwood, A.*—School Ventilation.
- Hammer-Jackson, Mrs C.*—Prevention of Infantile Mortality by Help Extended to the Expectant Mother.
- Henderson, J.*—The Relationship of the Bacteriological Condition of the Udder to the Health of the Community.
- Kay, T.*—Tables Showing Height, Weight, Mental Capacity, Condition of Nutrition, Teeth, etc.
- Kaye, J. R.*—Supervisory Control of Water Supplies.
- Kelso, W. W.*—Rights and Responsibilities of Property in Relation to Sanitary Administration.
- Kenwood, Prof. H. R., and F. J. Allan.*—Practical Disinfection in Rooms and Workshops Occupied by Sufferers from Consumption.
- Knight, J.*—The Control of the Small-Pox Contact.
- Legge, J. G.*—Muscle and Morality.
- Macgregor, J. M.*—Medical Inspection of School Children.
- Martin, A. J.*—The Management of Sewage Disposal Works.
- Matthews, E. R.*—Portland Cement: The Need of a Standard Test.
- Montrose, Her Grace the Duchess of.*—On Hygiene.
- Newsholme, A.*—Shell-Fish and Infection.
- Oliver, Prof. T.*—The Effects of Fatigue, Alcohol, and Tubercle upon Wage Earners in their Work and Surroundings.
- Pace, E.*—The Physical Training of Women and Girls.
- Pearson, J. W.*—A Few Common Defects in House Drains.
- Phillips, T. B.*—Some Notes on Rural Inspecting.
- Powell, Sir R. D., Bart.*—The Prevention of Consumption.

- Primrose, Sir J. U., Bart.*—The Smoke Problem.
- Ravenhill, Miss A.*—Applied Physiology in the School-room (with Special Reference to the Subject of Posture).
- Rideal, S.*—A New Physiological Method for the Detection of Sewer Gas (Preliminary Note).
- On the Hygienic Significance of Sulphur in Coal Gas.
- and *E. Baines.*—The Suggested Use of Copper Drinking Vessels as a Prophylactic against Water-borne Typhoid.
- Robertson, J.*—Notification of Tuberculosis.
- Robinson, Prof. H.*—Engineering and Architecture.
- Robinson, H. M.*—Ventilation of Factories and Workshops.
- Safford, Miss A. J.*—Health Aspects of some Occupations for Women.
- Shanks, J.*—Sanitary Fittings.
- Shanks, W.*—Six Years' Experience of the Septic Tank System of Sewage Disposal.
- Smith, E. S.*—Motor Vehicles in Relation to Municipal Service.
- Smith, Miss I. G.*—Some Hints on the Management of Infants.
- Smith, S.*—The Drainage of a House.
- Somerville, A. F.*—Pollution of Rivers by the Sludging of Mill Dams.
- Swan, J. P.*—The Incidence of Small-Pox in Relation to Sanitation.
- Taylor, G.*—Nuisances Connected with Pig-Keeping.
- Temple, Sir R. C., Bart.*—On some Administrative Measures taken against Malaria and Consumption in the Tropics.
- Templemann, C.*—Infantile Mortality: its Causes and Prevention.
- Thomson, G.*—Domestic Sanitary Engineering in West of Scotland.
- Thomson, H. W.*—Report on the Examination of the Eyes of 750 School Children in Glasgow.
- Tuke, A.*—Physical Training as a Branch of School Hygiene.
- Vynne, Miss N.*—Woman's Home Work in Relation to Comfort, Character, and Health.
- Waddy, F. H.*—Scarlet Fever in Relation to Hospital Isolation in Sheffield.
- Willcox, J. E.*—The Importance of Uniform Distribution of Sewage on Filters.
- Wilson, H. M'L.*—Some Experiments in the Purification of Brewery Refuse.
- Wood, T.*—A Plea for the Co-ordination of the Public Health of Schools.
- The Great Importance of Hygienic School Desks and Seats.
- Woodruff, Prof. H. A.*—The Dangers of an Impure Milk Supply.
- Wright, Miss G.*—District Nursing as a Hygienic Agency.
- Wright, W.*—Sanitary Condition of the Mercantile Marine.
- Young, J. M'L.*—The Present Position of Tuberculosis as an Infective Disease Dangerous to Man.

NEW SYDENHAM SOCIETY. (FOUNDED 1858.)

Officers.—*President:* W. Osler, M.D., F.R.S. *Treasurer:* Henry Power, Esq., F.R.C.S. *Hon. Secretary:* Jonathan Hutchinson, F.R.S., 15 Cavendish Square, W. *Acting Secretary:* A. E. Russell, M.D., 9 Wimpole Street, W. *Agent:* H. K. Lewis, 136 Gower Street, W.C.

Meeting.—The Anniversary Meeting is held at same place and time as the Meeting of the British Medical Association.

Membership.—Annual Subscription, 21s.

Publications during 1904 and 1905.—*Atlas of Clinical Medicine*, Fasc. VIII. and IX., containing "Eruptions due to Arsenic," "Urticaria Pigmentosa," "Leprosy." Double part, Vols. CLXXXI.—CLXXXII. Fasc. X. and XI., containing "Morphœa and Allies" and "Colles' Fracture." Double part, Vol. CLXXXIII. Fasc. XII., containing "Miscellaneous Subjects," "Radiographs of Fractures," etc. Vol. CLXXXIV. Fasc. XIII., "Hebra's Sarcoma Melanodes," "Flea-bite Eruptions," "Phthiriasis Rubra," etc. Vol. CLXXXV. Fasc. XIV., containing "Leucoderma," "Myxœdema, Eruptions caused by Drugs," etc. Vol. CLXXXVI. Fasc. XV., "Miscellaneous."

ST MARY'S HOSPITAL MEDICAL SOCIETY,
ST MARY'S HOSPITAL MEDICAL SCHOOL, PADDINGTON,
LONDON, W. (FOUNDED 1866.)

Officers.—*President*: V. Warren Low, F.R.C.S. *Secretaries*: H. J. Brewer;
 F. A. Juler.

Meetings.—Alternate Wednesdays during the Winter, at 8.15. The Anniversary Meeting takes place on the second Wednesday in March.

[No Return.]

UNIVERSITY COLLEGE MEDICAL SOCIETY,
GOWER STREET, W.C. (FOUNDED 1828.)

Officers.—*President*: S. H. Bown, M.B., B.Sc. *Hon. Secretaries*:
 J. Appleyard; B. F. Bartlett.

Meetings.—Alternate Wednesdays of month during the Session, at 8.30 p.m.
 The Anniversary Meeting is held in October.

Membership.—Subscription for 5 years, 30s.

List of Papers read during Session 1904–1905.

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| <i>Bolton, Dr C.</i> , M.R.C.P.—The Treatment of Cardiac Failure in Diphtheria. Mar. 8. | <i>Johnson, R.</i> , F.R.C.S.—Some Friends among the Older Surgeons. May 17. |
| <i>Bown, Dr S. H.</i> —The Effect of the Diphtheria Toxine on the Central Nervous System and Heart. Mar. 22. | <i>Powell, Sir R. D.</i> , B.C., F.R.C.P.—The Influence of the Septic Agent in Practical Medicine. Oct. 26. |
| <i>Bucknall, T. R. H.</i> , F.R.C.S.—Retrograde Incarceration. Nov. 16. | <i>Shaw, Dr B.</i> , M.R.C.P.—Modern Aspect of the Treatment of Tuberculosis (Pulmonary). Jan. 18. |
| <i>Flemming, Prof. P.</i> , F.R.C.S.—The Life and Work of Thomas Young, the Founder of Physiological Optics. Nov. 30. | <i>Trotter, W. B. L.</i> , F.R.C.S.—The Diagnosis of Swellings of the Long Bones. Feb. 1. |
| <i>Heath, P. H.</i> , F.R.C.S.—Some Methods of Dealing with the Appendix. May 31. | <i>Waugh, C. E.</i> , M.D., B.A.—Retropharyngeal Abscesses in Children. May 31. |

COUNTRY.

BRADFORD MEDICO-CHIRURGICAL SOCIETY,
BRADFORD ROYAL INFIRMARY. (FOUNDED 1863.)

Officers.—*President*: C. F. M. Althorp, M.B. *Hon. Secretaries*: W. Mitchell, M.B., Park Lane; T. J. Wood, M.D., Marlborough Road.

Meetings.—Third Tuesday in each month, from October to June inclusive, at 8.15 p.m. The Annual Meeting takes place in June.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d.

Publication.—Forty-first *Annual Report*, with Synopsis of Papers read during Session.

List of Papers read during Session 1904-1905.

- Althorp*, —. — Wounds—Ancient and Modern. (Presidential Address.) Oct.
- Bateson*, *V.*—Case of Supposed Granuloma Fungoides. Jan.
- Bronner*, *Dr A.*—The Local Use of Orthoform in Treatment of Painful Ulcers, with Special Reference to Tuberculous Laryngitis. Jan.
- Craig*, *Dr W.*—Some Cases of Diabetes. June.
- Eurich*, *Dr.*—Some Points in the Diagnosis of Hysteria. Nov.
- Auto-Intoxication. May.
- Handcock*, — and *Dr Eurich*.—Case of Brain Tumour. Oct.
- Hime*, *Dr T. W.*—The Compulsory Notification of Infectious Diseases in Bradford during Twenty-four Years, considered as a Preventive Measure, with Comparative Reference to Other Towns. Feb.
- Horrocks*, *W.*—The Advantages and Disadvantages of some of the Substances used as Sutures in Surgery. Apr.
- Mitchell*, *Dr W.*—Case of Cutaneous Anthrax Treated, without Excision, with Sclavo's Anti-Anthrax Serum—Recovery. Apr.
- Rabagliati*, *Dr.*—An Entirely New Suggestion as to the part Food Plays in the Human Economy. Nov.
- Schofield*, —. —Case of Cutaneous Anthrax Treated, without Excision, with Sclavo's Anti-Anthrax Serum—Death. Apr.
- Slater*, *H. B.*—Case of Anuria due to Renal Calculus. Oct.
- Wood*, *Dr T. J.*—Some Cases of Epilepsy (Morrison's Operation). May.

BRISTOL MEDICO-CHIRURGICAL SOCIETY,

UNIVERSITY COLLEGE.

Officers.—*President*: Reginald Eager, M.D.Lond. *Secretary*: H. F. Mole, 1 Tottenham Place, Clifton, Bristol.

Meetings.—Second Wednesday in each month, from October to May inclusive, at 8 P.M. The Anniversary Meeting is held in October.

Membership.—No Entrance Fee; Annual Subscription, 21s. The Libraries of this Society and of the Faculty of Medicine of University College, Bristol (21,600 vols. and 227 current Periodicals), form the Bristol Medical Library, open to Members of the Society.

Publication during 1904.—*Bristol Medico-Chirurgical Journal*, quarterly, 1s. 6d.

*List of Papers read during Session 1904-1905. Those marked * are published in the "Bristol Medico-Chirurgical Journal."*

Allbutt, *Clifford*, M.D., F.R.S.—The Prevention of Apoplexy. Jan. 11.*

Clarke, *J. Mitchell*, M.D.—Certain Symptoms of Tumour of the Cerebellum, with Illustrative Cases. Apr. 12.

Groves, *E. W. Hey*, M.D.—On the Advantages of Enucleation of the Tonsils over their Removal by the Guillotine. Nov. 9.*

Morton, *C. A.*—A Plea for the Preservation of the Limb in Operations for Sarcoma of Bone. Dec. 14.

Symes, *J. O.*, M.D.—Cysto-diagnosis. Mar. 8.

Waldo, *H.*, M.D.—The Causes and Treatment of Baldness. Mar. 8.

Wills, *Kenneth*, M.B.—The Treatment of *Acne vulgaris*. Apr. 12.

CAMBRIDGE MEDICAL SOCIETY,

ADDENBROOKE'S HOSPITAL, CAMBRIDGE.

Officers.—*President*: Prof. H. Marsh, F.R.C.S. *Hon. Secretary*: J. A. Wright, M.D., Corpus Buildings.

Meetings.—First Friday in each month from November to July (except January) at 2.30 P.M. Annual Meeting first Friday in February.

Membership.—Annual Subscription, 5s.

Papers read in 1904, and published in the "Proceedings."

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| <p><i>Allbutt, Prof. C.</i>—Transitory Painful Spasm of the Colon. Mar. 4.</p> <p><i>Bartlett, H.</i>—A Case of Lithopædion, Laparotomy—Recovery. Feb. 5.</p> <p>—Remarks on the Operation of Complete Removal of Prostate Gland. Dec. 2.</p> <p><i>Cooke, A.</i>—A New Method of Treating Burns. June 3.</p> <p><i>Ingle, Dr A. C.</i>—Chronic Otorrhœa. June 3.</p> <p><i>Jones, Dr L.</i>—Treatment of Cardiac Failure. Mar. 4.</p> <p><i>Keith, S.</i>—A Consideration of some of the Difficulties met with in the Experimental Treatment of Cancer. Feb. 5.</p> <p><i>Marsh, Prof. H.</i>—Some Sources of Erroneous Diagnosis. Nov. 4.</p> <p><i>Nash, G.</i>—Three Cases of Excision of Cæcum and Ascending Colon. Dec. 2.</p> | <p><i>Nash, G.</i>—Laceration of Hydro-Nephrotic Kidney. Dec. 2.</p> <p><i>Savory, Dr.</i>—Benign Papilloma of the Pelvis, of the Kidney, Hæmothorax, Nephrectomy—Recovery. June 3.</p> <p><i>Walker, Dr T. J.</i>—Osteo-Sarcoma of the Base of the Skull of Sixteen Years' Duration. Nov. 4.</p> <p>—Acute Ascending Paralysis as a Fatal Termination of Cases of Chronic Cystitis. Nov. 4.</p> <p><i>Wherry, G. E.</i>—Specimen of the Appendix Removed with a Pin in its Interior. May 6.</p> <p>—The Rising Posture in Ungulates. May 6.</p> <p><i>Wright, Dr A.</i>—Pseudo-hypertrophic Paralysis. Seven Cases Described. Four Shown. May 6.</p> <p>—A Case of Acromegaly. June 3.</p> <p>—Splenic Anæmia in Infancy. June 3.</p> |
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CARDIFF MEDICAL SOCIETY,

QUEEN STREET. (FOUNDED 1870).

Officers.—*President:* J. L. Thomas, C.B., F.R.C.S. *Hon. Secretaries:* W. Mitchell Stevens, M.D., 21 St Andrews Crescent, Cardiff; F. W. S. Davis, 21 Newport Road, Cardiff.

Meetings.—First Tuesday in every month from October to May inclusive, at 8 P.M. Annual Meeting in May.

Membership.—Entrance Fee, £1, 1s.; Annual Subscription, £1, 1s., Country Members, 10s. 6d.

CHESTER MEDICAL SOCIETY,

THE LIBRARY, CHESTER GENERAL INFIRMARY.

(FOUNDED 1883.)

Officers.—*President:* P. H. Mules, M.D. *Hon. Secretary:* W. A. Newall, M.D., D.P.H.

Meetings.—First Friday in each month, from November to July inclusive, at 5 P.M. and 8 P.M. alternately. The Annual Meeting second Friday in December.

Membership.—No Entrance Fee; Annual Subscription, 10s. 6d. Town, and 7s. 6d. Country Members.

**HUDDERSFIELD MEDICAL SOCIETY
AND LIBRARY,
INFIRMARY, HUDDERSFIELD.**

Officers.—*President*: Dr C. Rolfe. *Hon. Secretary*: F. H. Knaggs,
Oak House, New North Road.

Meetings.—First Tuesday in each month, from November to May inclusive.
The Annual Meeting takes place in May.

Membership.—No Entrance Fee; Annual Subscription: for Town Members,
21s.; for Country Members, 12s. 6d.

**LEEDS AND WEST RIDING MEDICO-CHIRURGICAL
SOCIETY,**

LEEDS INFIRMARY. (FOUNDED 1872.)

Officers.—*President*: E. Ward. *Hon. Secretaries*: L. Knaggs, 27 Park Square;
Dr M. Telling, 32 Park Square.

Meetings.—About twelve Meetings are held on Fridays during the
Session, at 7.30 P.M.

Membership.—Annual Subscription: for Leeds Members, 21s.; for County
Members, 10s. 6d.; no Entrance Fee.

List of Papers read during Session 1904–1905.

President's Address.—On Diseases of the Nose in their Relationship to Pathological Conditions of other Organs.

Discussion on the Treatment of Pneumonia.

Barrs, Dr.—On Left Supra-clavicular Adenopathy and its Significance, with Cases.

Brown, W. H.—Some Suggestions as to the Causation of Malignant Disease.

Campbell, Dr J.—The Treatment of Croupous Pneumonia.

Churton, Dr.—Further Cases of Disease of the Prefrontal Lobe.

Collinson, H.—A Case of Fibroid Polypus of the Bladder.

Griffith, Dr.—Remarks on a Case of Infective Endocarditis.

Grünbaum, Prof.—On Vaccines and Serums in Theory and Practice.

— The Germinal Theory of Cancer.

Hall, B.—A Case of Spasmodic Torticollis Treated by Neurectomy of the Spinal Accessory and Posterior Nerve Roots.

Hebblethwaite, S. M.—Angina Pectoris: a Point in Diagnosis and Prognosis.

Hellier, Dr.—Some Remarks on Secondary Post-partum Hæmorrhage.

Knaggs, L.—Two Cases of Bullet Wound of the Brain.

— and *O. C. Gruner.*—Two Cases of Multiple Malignant Tumours of the Bowel.

Mayo, W. C.—Anæsthetics in Abdominal Operations.

Moyneham, B. G. A.—Diseases of the Gall Bladder and Bile Ducts.

Oldfield, C.—Further Report on a Vesicular Mole Case.

Scott, S. G.—On a Typical Case of Acute Yellow Atrophy of the Liver.

Telling, Dr W. H. M.—Pigmentation and Diabetes.

Trevelyan, Dr.—Some Remarks on Erb's Juvenile Dystrophy as Observed in Four Members of one Family.

Whitehead, A. L.—Nasal Disease as a Cause of Headache.

LEICESTER MEDICAL SOCIETY,
THE LIBRARY, 4 GALLOWTREE GATE, LEICESTER.
 (FOUNDED 1800.)

Officers.—*President*: R. Pratt, M.D. *Secretaries*: R. W. Henry, M.D., 6 Market Street; J. S. Sloane, M.B., London Road.

Meetings.—First Wednesday in each Winter month from October to April, 8 P.M.

Membership.—Entrance Fee, 21s.; Annual Subscription, 21s.

[No Return.]

THE CLINICAL SOCIETY OF MANCHESTER,
PALATINE HOTEL. (FOUNDED 1885.)

Officers.—*President*: E. S. Reynolds, M.D., F.R.C.P. *Hon. Secretary*: C. C. Heywood, M.A., M.B., M.R.C.P., Winter's Buildings, St Ann Street.

Meetings.—Third Tuesday in each month, from October to April inclusive, at 4.15 P.M. The Annual Meeting takes place in October.

Membership.—Annual Subscription, 10s. 6d.

List of Papers read during the Session 1904–1905. All Papers read before the Society are now printed in the "Transactions of the Clinical Society of Manchester," published monthly during the Session.

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| <p><i>Ashby, H.</i> — Vomiting in Infancy. Mar. 21.</p> <p><i>Ballance, C. A.</i> — The Application of the Principles of Surgery to the Treatment of Injuries and Acute Infections when Occurring within the Abdomen. Oct. 4.</p> <p><i>Bishop, E. S.</i> — The Surgical Aspect of Biliary Calculi as Illustrated by Twenty-two Cases. Jan. 17.</p> <p><i>Fitzgerald, G.</i> — Hæmorrhage in the First Three Months of Pregnancy, with Special Reference to Abortion. Feb. 21.</p> <p><i>Gordon, E. K.</i> — Some Practical Points</p> | <p>in the Treatment of Scarlet Fever. Jan. 17.</p> <p><i>Lancashire, G. H.</i> — Ringworm. Nov. 15.</p> <p><i>Lea, A. W. W.</i> — Puerperal Septicæmia. Nov. 15.</p> <p><i>Platt, T. E.</i> — The Pathology and Treatment of Injuries of the Semi-Lunar Cartilages of the Knee-joint. Nov. 15.</p> <p><i>Ray, J. H.</i> — Treatment of Cervical Adenitis. Apr. 18.</p> <p><i>Reynolds, E. S.</i> — Neurological Therapeutics.</p> <p>— Joint Affections from a Medical Aspect.</p> |
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MANCHESTER MEDICAL SOCIETY,
THE OWENS COLLEGE. (FOUNDED 1834.)

Officers.—*President*: William Thorburn, F.R.C.S. *Secretary*: J. E. Platt, M.S., F.R.C.S., 191 High Street, Oxford Road.

Meetings.—First Wednesday in each month, from October to April, at 8 P.M. Clinical Meetings on the third Wednesdays of October, December, and February at 4.30 P.M., at the Royal Infirmary. The Annual Meeting takes place in January.

Membership.—Annual Subscription, 21s.; no Entrance Fee.

List of Papers read during Session 1904-1905.

- Bishop, E. S.*, F.R.C.S.—Treatment of Mucons Colitis by Irrigation through the Appendix. Mar. 1.
- Bramwell, B.*, M.D.—Errors in Diagnosis. Oct. 5.
- Cox, J. J.*, M.D. — Achondroplasia. Mar. 1.
- Dreschfeld, J.*, M.D.—Thomsen's Disease. Apr. 5.
- Ewart, R. J.*, M.D. — Venæsection. Mar. 1.
- Fothergill, W. E.*, M.D.—The Menstrual Function in Anæmia. Apr. 5.
- Griffith, A. H.*, M.D. — Operative Treatment of High Myopia. Dec. 7.
- Marsden, R. W.*, M.D.—Late Rickets. Dec. 7.
- Milligan, W.*, M.D. — Suppurative Frontal Sinusitis. Dec. 7.
- Moritz, S.*, M.D. — Diseases of Nasal Accessory Sinuses. Nov. 2.
- Ransome, A.*, M.D., F.R.S.—Lessons from Phthisis Death-Rates. Feb. 1.
- Ray, J. H.*, F.R.C.S.—Acute Intussusception due to Polyp. Feb. 1.
- Southam, F. A.*, F.R.C.S.—Pyloric Obstruction. Apr. 5.
- Wild, R. E.*, M.D.—Supervention of Malignant Disease on Lupus Vulgaris. Nov. 2.
- Williamson, R. T.*, M.D.—The Vibrating Sensation in Affections of the Nervous System. Feb. 1.
- Wilson, A.*, F.R.C.S.—Treatment of Accidents under Chloroform. Apr. 5.

MANCHESTER MEDICO-ETHICAL ASSOCIATION,

QUEEN'S HOTEL. (ESTABLISHED 1847.)

Officers.—*President*: Sam Buckley, M.D. *Hon. Secretaries*: S. Bagley, 229 Clowes Street, W. Gorton; G. H. Lancashire, M.D., Winter's Buildings, St Ann Street, Manchester.

Meetings.—Last Tuesday in September, November, February, and April. The Annual Meeting takes place in January.

Membership.—Annual Subscription, 10s. 6d.

MANCHESTER PHYSICAL-HEALTH CULTURE SOCIETY,

27 BRAZENNOSE STREET, MANCHESTER.

Officers.—*President*: Rt. Hon. Lord Avebury. *Secretary*: H. J. Lunt.

Membership.—No Entrance Fee; Annual Subscription, 2s. 6d.

PATHOLOGICAL SOCIETY OF MANCHESTER,
THE VICTORIA UNIVERSITY.

Officers.—*President*: A. Donald, M.D. *Hon. Secretary*: F. C. Moore, M.D., 96 Mosley Street.

Meetings.—Second Wednesday in each month, from October to May inclusive at 7.30 P.M. The Annual Meeting takes place in October.

Membership.—Annual Subscription, 5s.

NEWCASTLE-UPON-TYNE CLINICAL SOCIETY,
THE DISPENSARY, NELSON STREET.

Officers.—*President*: T. G. Ouston, F.R.C.S. *Hon. Secretary*: George Foggin, 24 Eldon Square.

Meetings.—First Thursday in the month, October to April, at 8 P.M.,
the Annual Meeting being in November.

Membership.—Annual Subscription, 7s. 6d.

*List of Papers read are published in "The Northumberland and
Durham Medical Journal."*

[No Return.*]

NORTH OF ENGLAND OBSTETRICAL AND GYNÆ- COLOGICAL SOCIETY.

Officers.—*President*: D. Lloyd Roberts, M.D. *Secretary*: W. E. Fothergill,
M.D., 135 John Street, Manchester.

Meetings.—Third Friday of each month at Manchester, Liverpool, Leeds, and
Sheffield, in rotation. The Annual Meeting is held in January at
Manchester.

Membership.—No Entrance Fee; Annual Subscription, 5s.

Publication.—*Transactions*, issued monthly to Members.

NOTTINGHAM MEDICO-CHIRURGICAL SOCIETY, THE GENERAL DISPENSARY, BROAD STREET.

Officers.—*President*: Dr H. J. Neilson. *Hon. Secretary*: F. H. Jacob,
Regent Street.

Meetings.—First and third Wednesdays in each month at 8.30 P.M.
The Annual Meeting takes place in July.

Membership.—Annual Subscription, 21s.

NORTHUMBERLAND AND DURHAM MEDICAL SOCIETY,

ROYAL INFIRMARY, NEWCASTLE-ON-TYNE. (FOUNDED 1848.)

Officers.—*President*: G. H. Hume, M.D., D.C.L. *Hon. Secretaries*: R. A.
Bolam, M.D., M.R.C.P., 3 Saville Place; H. B. Angus, M.B., F.R.C.S.,
St Mary's Place.

Meetings.—Second Thursday in each month, from October to March inclusive.
The Anniversary Meeting takes place in October.

Membership.—Annual Subscription, 10s.

Publication.—*The Northumberland and Durham Medical Journal*, published
quarterly.

SHEFFIELD MEDICO-CHIRURGICAL SOCIETY, THE MEDICAL SCHOOL, LEOPOLD STREET. (FOUNDED 1869.)

Officers.—*President*: W. T. Cocking, M.D. *Hon. Secretary*: Dr W. S. Kerr,
London Road.

Meetings.—Alternate Thursdays, from October to April, at 8 P.M. Annual
Meeting takes place in May.

Membership.—Annual Subscription, One Guinea for residents; half-a-guinea
for non-residents.

List of Papers read during Session 1904-1905.

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| <i>Carter, Dr G.</i> —Fluid in the Serous Cavities as a Sign of Death by Drowning. Mar. 2. | <i>Harrison, F.</i> —Dental Necrosis. Feb. 2. |
| <i>Cuff, Dr A.</i> —Pelvic Peritonitis. Nov. 10. | <i>Macdonald, Prof. J. S.</i> —Nerves and Nervous Impulses. Dec. 22. |
| <i>Favell, R.</i> —Treatment of Uterine Fibroids. Mar. 30. | <i>Mould, G. E.</i> —The Artificial Feeding of the Insane. Mar. 16. |
| <i>Gwynne, Dr C. N.</i> —Treatment of Chronic Bright's Disease. Nov. 24. | <i>Nutt, Dr W. H.</i> —Lead Poisoning in Young Women, due to Patent Pills. Dec. 8. |
| <i>Hall, Dr A.</i> —Habit and Periodicity in Disease. Oct. 13. | <i>Porter, Dr C.</i> —Ankylostomiasis. Feb. 16. |
| | <i>Wilson, A. G.</i> —Massage in the Treatment of Joint Affections. Dec. 8. |

WIGAN MEDICAL SOCIETY.

(FOUNDED 1874.)

Officers.—*President*: J. Chronnell, M.R.C.S.Eng. *Hon. Secretary*: W. Berry, F.R.C.S.I., Park House, Wigan.

Meetings.—Second Thursday in March, June, October, and December. The Annual Meeting takes place in October.

Membership.—Annual Subscription, 5s.

Papers read during 1904 and 1905.

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| <i>Berry, W.</i> , F.R.C.S.I.—Death Certification. Sept. 1. | <i>Grimshall, T. B.</i> , B.A., M.B.—Puerperal Fever. Mar. 9. |
| <i>Brooke, H. G.</i> , B.A., M.D.—Methods in the Treatment of Skin Diseases. Dec. 1. | <i>Jonas, R.</i> , F.R.C.S.—On Injury about the Elbow Joint. July 14. |
| <i>Chronnell, J.</i> , M.R.C.S.—Presidential Address on Ankylostomiasis. Apr. 14. | <i>Monks, G. H.</i> , L.R.C.P.—The Radical Cure of Hernia. June 8. |

SCOTLAND.**EDINBURGH HEALTH SOCIETY,**

44 QUEEN STREET. (INSTITUTED 1881.)

Officers.—*President*: The Rt. Hon. The Earl of Rosebery. *Hon. Secretary and Treasurer*: R. S. Aitchison, 44 Queen Street.

Membership.—Annual Subscription, 1s. or more; Life Membership, 21s.

No Lectures were delivered during the past Session.

ROYAL MEDICAL SOCIETY OF EDINBURGH,

7 MELBOURNE PLACE, EDINBURGH.

(FOUNDED 1737; ROYAL CHARTER OBTAINED 1778.)

Officers.—*Presidents*: H. N. Fletcher, M.B.; A. C. Geddes, M.B.; H. J. Dunbar, M.B.; R. J. Johnston, M.A., M.B. *Secretaries*: J. D. Wells; D. M. Barcroft.

Meetings.—Every Friday, at 9 P.M., from October to March.

Membership.—Annual Subscription, 42s.

EDINBURGH MEDICO-CHIRURGICAL SOCIETY,

117 GEORGE STREET. (FOUNDED 1821.)

Officers.—*President*: Prof. J. Chiene, C.B. *Secretaries*: Dr M. Dunlop, 20 Abercromby Place; A. Thomson, 39 Drumsheugh Gardens.

Meetings.—First Wednesday in each month, from November to July inclusive (January excepted, when it is on the third Wednesday). The Annual Meeting takes place in November.

Membership.—Entrance Fee, £2, 2s.; Annual Subscription, 10s.

List of Papers read during Session 1904–1905.

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| <i>Dowden, —.</i> —Recurring Torsion of the Spermatic Cord. Feb. 1. | <i>Rainy, Dr.</i> —The Nature of Friedreich's Ataxia. Jan. 18. |
| <i>Fleming, Dr R. A.</i> —Massage in Cardiac Dilatation. Feb. 1. | <i>Robertson, Dr W. G. A.</i> —The Milk Supply of Edinburgh. Jan. 18. |
| <i>Paterson, Dr J. V., and Dr E. Bramwell.</i> —On Two Cases of Word Blindness. May 3. | |

EDINBURGH OBSTETRICAL SOCIETY,

5 ST ANDREW SQUARE, EDINBURGH.

Officers.—*President*: N. T. Brewis, M.D., F.R.C.S.E. *Secretaries*: W. Fordyce, M.D., F.R.C.P.E., 20 Charlotte Square; J. Lamond Lackie, M.D., F.R.C.P.E., 1 Randolph Crescent.

Meetings.—Second Wednesday in each month, from November to July, at 8 P.M. (April excepted).

Membership.—Entrance Fee, 21s.; Annual Subscription, 5s.; Life Subscription, £5, 5s.

Publication.—*Transactions*, 10s. 6d.

List of Papers read during Session 1904–1905.

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| <i>Barbour, Dr F.</i> —Climacteric Hæmorrhage due to Sclerosis of Uterine Vessels. Jan. 11. | <i>Croom, Sir H.</i> —Some Curiosities of Curetting. May 10. |
| <i>Carmichael, Dr S.</i> —The Application of Bier's Hyperæmic Treatment to Gynæcological Disease. Jan. 11. | <i>Haultain, Dr F. W. N.</i> —Abdominal Hysterectomy for Uterine Fibromyomata. Feb. 8. |
| | <i>Simpson, Dr B.</i> —Notes of a Fatal Complete Prolapsus Uteri. Jan. 11. |

EDINBURGH MEDICAL MISSIONARY SOCIETY,

56 AND 57 GEORGE SQUARE. (FOUNDED 1841.)

Officers.—*President*: Dr James Ritchie. *Secretary*: Dr E. S. Fry.

Meetings.—Third Thursday in each month. The Anniversary Meeting takes place on the fourth Thursday in January.

Publication.—*Quarterly Journal on Medical Missions*, 1s. per annum.

ABERDEEN MEDICO-CHIRURGICAL SOCIETY,

29 KING STREET. (FOUNDED 1789.)

Officers.—*President*: George Rose, M.D. *Secretary*: J. Marnock, M.D.,
2 Bonaccord Square.

Meetings.—First Thursday of each month from November till May, at 8.30 P.M.
The Annual Meeting is held in December.

Membership.—Entrance Fee, £3, 3s.; Annual Subscription, £1, 1s.

List of Papers read during Session 1904–1905.

Beveridge, Dr A. T. G.—Case of Rectal Cancer Treated by Inguinal Colotomy.

Hay, Dr M.—The Present Typhus Epidemic in Aberdeen.

Henderson, Dr A.—Case of Glandular Enlargement in a Child.

Howie, Dr P.—Case of Epigastralgia.

Lawson, Dr D.—The Application of X-Rays in the Diagnosis of Chest Affections.

Lister, Dr A.—A Case of Hæmoglobinuria.

M'Kerron, Dr R. G.—The Effect of X-Rays in the Treatment of Leucocythæmia.

Milne, Dr T.—A Case of Cat Asthma.

Ogston, Dr A.—A Case of Intestinal Obstruction.

Rennet, Dr D.—The Statistics of Puerperal Fever Occurring in Aberdeen within Recent Years.

Riddell, Dr J. S.—Ten Cases of Abdominal Section for Abnormal Pregnancy and Obstructed Labour.

Rose, Dr G.—A Case of Chronic Polyarthrititis in a Child.

Stephenson, Dr.—The Prevention of Sepsis in Midwifery.

GLASGOW MEDICO-CHIRURGICAL SOCIETY,

242 ST VINCENT STREET.

(Founded 1866 by the Amalgamation of the Medical Society, founded 1814, and the Medico-Chirurgical Society, founded 1814.)

Officers.—*President*: Dr J. Lindsay Steven. *Secretary*: Dr Arch. Young,
35 Berkeley Terrace.

Meetings.—First and third Friday of each month from October to May inclusive.
Annual General Meeting second Friday in May.

Membership.—Annual Subscription, 5s.; no Entrance Fee.

The Papers read before the Society are published in its "Transactions," bi-yearly 10s. 6d., and in the "Glasgow Medical Journal."

GLASGOW OBSTETRICAL AND GYNÆCOLOGICAL SOCIETY,

FACULTY HALL, 242 ST VINCENT STREET. (FOUNDED MAY 1885.)

Officers.—*President*: J. K. Kelly, M.D. *Editor of Transactions*: A. N. M'Lellan. *Secretary*: G. Balfour Marshall, M.D., 19 Sandyford Place.

Meetings.—Fourth Wednesday of October, November, January to May, and third Wednesday in December, at 8.30 P.M. The Annual Meeting is in May.

Membership.—Annual Subscription, 5s.

Publication.—*Transactions*, price 7s. 6d.

Titles of all Papers read before the Society from October 1904 to June 1905.

- Cullingworth, Dr C. J.*—The Secondary Operation for Complete Rupture of the Perineum. June 21.
- Duff, Dr D.*—Case of Uterus Didelphys with Septate Vagina. Nov. 23.
- Edgar, Dr J.*—Case of Extra-Uterine Pregnancy at Full Term. May 24.
- Jardine, Prof. R.*—Some Cases of Interest in Obstetrics. Mar. 22.
- Kelly, Dr J. K.*—Extra-Uterine Pregnancy. Oct. 26.
- Ovarian Dermoid, with Torsion of Pedicle Complicating Pregnancy. Mar. 22.
- Marshall, Dr G. B.*—Vulcanite Ring Pessary worn Fifteen Years, and Causing Symptoms Simulating Malignancy in a Woman, aged 60. Nov. 23.
- Double Ovarian Cystoma and Uterus Affected with Melanosarcoma; whole Abdominal and Thoracic Viscera studded with Innumerable Melanosarcomatous Tumours. Jan. 25.
- Marshall, Dr G. B.*—Large Hydro-nephrosis mistaken for Ovarian Cystoma. Mar. 22.
- Oliphant, Dr E. H. L.*—The Treatment of Endometritis. Feb. 22.
- Reid, Dr W. L.*—Treatment of Uterine Prolapse. Dec. 21.
- Russell, Dr A. W.*—Epileptiform Attacks Complicating Double Ovarian Tumour; Removal of Growths followed by Cessation of Attacks. Nov. 23.
- Some Cases of Uterine Myoma, with Remarks on the Indication for Operation. Jan. 25.
- Stark, Dr J. N.*—Notes on a Case of Inversion of the Uterus due to Malignant Disease. May 24.

THE GLASGOW SOUTHERN MEDICAL SOCIETY,

22 CARLTON PLACE. (FOUNDED 1844.)

Officers.—*President*: Dr J. Hamilton. *Secretary*: Dr J. Weir.

Meetings.—Fortnightly, on Thursdays from October to June inclusive, at 9 P.M.

Membership.—Annual Subscription, 5s.

GLASGOW AND WEST OF SCOTLAND MEDICAL ASSOCIATION,

68 MITCHELL STREET, GLASGOW.

Officers.—*President*: Dr W. K. Hunter. *Secretary*: J. Grant-Andrew, M.B., 12 Woodside Terrace.

Meeting.—The Annual Meeting is held in January.

Membership.—Annual Subscription, 20s.

Publication.—The *Glasgow Medical Journal* (Macdougall).

THE INCORPORATED SANITARY ASSOCIATION OF SCOTLAND,

83 BATH STREET, GLASGOW. (FOUNDED 1875.)

Officers.—*President*: John C. M'Vail, M.D., D.P.H. *Secretary*: George Middleton, M.A., LL.B., 83 Bath Street, Glasgow.

Meetings.—When necessary. An Annual Congress is held in the Autumn. In 1905 it was held at Inverness.

Membership.—Annual Subscription, 5s.; no Entrance Fee; Life Composition £3, 3s.

Examinations.—Examinations for Certificates of Competency in Sanitary Science are conducted by the Association, and held each year as follows, viz.: at Glasgow in April, at Edinburgh in October, and at such other time and place as the Board of Examiners may determine. Fee, £3, 3s. Full particulars from the Secretary.

List of Papers read before the Association at the Congress held at Perth in September 1904, and published in the "County and Municipal Record" (Hodge & Co., Glasgow), and in the "Transactions" of the Association.

Cameron, K.—The Mission of Sanitation.

Carpenter, J.—The Necessity for Effective Meat Inspection.

Chalmers, Dr A. K.—Sanitary Problems among the Poor.

Conway, G. R. G., C.E.—Modern Sewer Construction in its Relationship to Public Health.

Hendrick, J., B.Sc.—The Use of Pre-

servatives in Food in Relation to Public Health.

Mitchell, G.—Smoke Abatement.

Murray, J.—Various Methods for the Disposal of Refuse.

Stewart, Dr P.—Supervision of Small-pox Contacts in the Interests of the Public Health.

Young, J. M'L., F.R.C.V.S.—Hygiene of Cowsheds.

IRELAND.

ROYAL ACADEMY OF MEDICINE IN IRELAND.

(FOUNDED 1882.)

Officers.—*President*: Sir Thornley Stoker. *General Secretary*: J. Craig, M.D., 18 Merrion Square, Dublin. *Foreign Secretary*: Sir J. W. Moore.

Meetings.—Weekly, at 8 P.M., on Friday, from November to May inclusive. The Annual Meeting takes place in October.

Membership.—Entrance Fee: for Fellows, 21s.; Annual Subscription: for Fellows, 42s. and 21s.; for Members, 21s.; for Student Associates, 5s.

Publication.—*Transactions*, Vol. XXIII. (John Falconer).

DUBLIN SANITARY ASSOCIATION,

42 DAME STREET.

Officers.—*President*: George Roberts Price, M.A., K.C. *Hon. Secretaries*: A. E. Boyd, M.B., D.P.H.; T. P. C. Kirkpatrick, M.D.; A. Forbes Watson. *Assistant-Secretary*: Isaac Yeats, B.A.

Meetings.—The Ordinary Meetings are held every Thursday at 4.30 P.M.

Membership.—Annual Subscription, 10s.

Publication.—*Report of Council* (1904).

COUNTY AND CITY OF CORK MEDICAL AND SURGICAL SOCIETY,

118 PATRICK STREET, CORK.

(INSTITUTED 1841.)

Officers.—*President*: Dr W. H. Hobart. *Secretary*: Dr D. J. O'Connor, 36 South Mall.

Meetings.—Second and fourth Wednesdays of each month, from October to May, at 8 P.M. The Annual Meeting is in May.

Membership.—Entrance Fee, 10s. 6d.; Annual Subscription, Two Guineas.

**ULSTER MEDICAL SOCIETY,
MEDICAL INSTITUTE, COLLEGE SQUARE NORTH, BELFAST.**

Officers.—*President*: William Calwell, M.A., M.D. *Hon. Secretary*: T. Houston, 95 Great Victoria Street, Belfast.

Meetings.—First and third Thursday of each month, from November to May inclusive, at 4.30 and 8.30 P.M. alternately. The Annual Meeting takes place in June.

Membership.—No Entrance Fee; Annual Subscription: for Fellows, 42s.; for Members, 21s.

Publication.—*Transactions*, price 2s.

List of Papers read during Session 1904–1905. The published papers are marked (P).

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| <p><i>Calwell, W., M.A., M.D.</i>—Some Aspects of Metabolism, chiefly Clinical. (P.) Nov. 10.</p> <p><i>Campbell, R., F.R.C.S.Eng.</i>—Some Injuries to Joints. Dec. 8.</p> <p>—Surgical Cleanliness. Mar. 23.</p> <p><i>Carnwath, T., M.B.</i>—The Value of <i>Streptococcus</i> as an Index of Sewage Contamination. Mar. 2.</p> <p><i>Fielden, V. G. L., M.B.</i>—The Pharmacology of Therapeutics of Ice. (P.) May 11.</p> <p><i>Fullerton, A., M.D., F.R.C.S.I.</i>—Colles's Fracture and other Fractures and Disjunctions at the Lower End of the Radius and Ulna. (P.) Feb. 2.</p> <p><i>Graham, R. A. L., M.B.</i>—General Paralysis of the Insane, with Meningo-Myelitis. Mar. 2.</p> <p><i>Johnstone, R. J., M.B., F.R.C.S.Eng.</i>—Urinary Fistulæ. Apr. 15.</p> <p><i>Kirk, T. S., M.B.</i>—Some Cases of Perforation of the Stomach and Intestines. Apr. 15.</p> | <p><i>M'Kisack, H. L., M.D., M.R.C.P.</i>—The Treatment of Pneumonia by Ice. Jan. 19.</p> <p><i>M'Quilly, W. B., M.A., M.D.</i>—General Paralysis of the Insane. Jan. 19.</p> <p><i>Milroy, T. H., M.A., M.D.</i>—The Exchange of Nutritive Material between Different Organs of the Body as Exemplified in the Spawning of Fish. Mar. 2.</p> <p><i>Mitchell, A. B., M.B., F.R.C.S.I.</i>—Some Inefficient Gastric Operations. Dec. 8.</p> <p><i>Rankin, J. C., M.B.</i>—Röntgen Ray Treatment of Lupus, etc. (P.) Jan. 19.</p> <p><i>Robb, J. G., M.B.</i>—Smallpox in Belfast. (P.) May 4.</p> <p><i>Synnmers, W. St C., M.B.</i>—Lesions Produced by the Ova of <i>Bilharzia haematobia</i>. May 25.</p> <p><i>Woodhead, Prof. S.</i>—Alcohol as a Protoplasmic Poison. Jan. 5.</p> |
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OTHER MEDICAL SOCIETIES.

LONDON.

- Abernethian Society**, St Bartholomew's Hospital, E.C. Founded 1795. *Presidents*: H. E. G. Boyle and E. E. Young. *Hon. Secretaries*: J. R. R. Trist and E. H. Shaw.
- Esculapian Society**, Metropolitan Hospital, Kingsland Road, N.E. Founded 1880. *President*: J. S. R. Russell. *Hon. Secretaries*: W. C. M'Donnell, 10 Park Lane, Stoke Newington, N., and R. Brown.
- Association for the Advancement of Medicine by Research**. Founded 1882. *President*: F. W. Pavy. *Secretary*: Dr Beavor, 135 Harley Street, W.

- Association of Public Vaccinators. Founded 1898. *President*: E. C. Greenwood. *Hon. Secretaries*: V. A. Jaynes, 157 Jamaica Road, S.E., and C. Greenwood.
- Association of Registered Medical Women. Founded 1880. *President*: Miss H. Webb. *Secretary*: Miss Clapham, M.B., 209 Camden Road, N.W.
- Battersea and Clapham Medical Society. *Secretary*: W. Carey, 41 Bollingbroke Grove, S.W.
- British Dental Association. Incorporated 1880. *President*: W. H. Williamson. *Hon. Secretary*: W. H. Dolamore, 19 Hanover Square, W.
- British Electro-Therapeutic Society, 11 Chandos Street, Cavendish Square, W. Founded 1901. *President*: H. L. Jones. *Hon. Secretary*: C. Williams, 20 Bedford Square, W.C.
- British Laryngological, Rhinological, and Otological Association. Founded 1888. *President*: J. Bark. *Hon. Secretaries*: A. Wylie and W. Stuart-Low.
- British Medical Temperance Association. Founded 1876. *President*: Prof. G. S. Woodhead. *Hon. Secretary*: Dr J. J. Ridge, Carlton House, Enfield.
- British Orthopaedic Society. Founded 1894. *Hon. Secretary*: C. Williams, 20 Bedford Square, W.C.
- British Postal Medical Officers' Association. Founded 1893. *President*: Dr J. Brown. *Hon. Gen. Secretary*: R. R. Giddings, M.B., 206 Mansfield Road, Nottingham.
- Brussels Medical Graduates' Association. Founded 1879. *President*: Dr M. Greenwood. *Hon. Secretary*: Dr F. H. Edwards, Camberwell House, S.E.
- Chelsea Clinical Society. Founded 1897. *President*: S. J. Owen. *Hon. Secretaries*: A. A. Cooper, M.D., Chelsea Dispensary, Manor Street, S.W.
- Clinical Research Association, Limited. Founded 1894. *Secretary*: C. H. Wells, 1 Southwark Street, S.E.
- Dermatological Society of Great Britain and Ireland, 11 Chandos Street, W. Founded 1894. *President*: H. Waldo. *Hon. Secretaries*: E. Stainer and S. Hurlbutt.
- East Suburban Medical Protection and Medico-Ethical Society, West Ham Hospital. Established 1898. *President*: F. J. Smith, M.D. *Hon. Secretary*: F. E. Bromley, 782 Barking Road, Plaistow, E.
- Guild of St Luke. Founded 1864. *Provost*: S. R. Wells. *Secretary*: C. D. Marshall, 112 Harley Street, W.
- Guthrie Society, Westminster Hospital. *President*: Dr B. L. Abrahams. *Hon. Secretaries*: Messrs G. W. Heron and J. W. L. Scott.
- Imperial Vaccination League. Founded 1902. *Hon. President*: His Grace The Duke of Northumberland. *Secretaries*: Mrs G. Anderson and J. V. Rees-Roberts.
- Incorporated Medical Practitioners' Association, Moorgate Station Chambers. Founded 1891. *President*: R. Ambrose. *Hon. Secretary*: G. Brown.
- Infirmay Medical Superintendents' Society. Founded 1887. *President*: J. S. Richards. *Secretary*: M. F. Squire, Paddington Infirmay, W.
- Irish Medical Schools' and Graduates' Association, 11 Chandos Street, Cavendish Square. Founded 1878. *President*: P. S. Abraham. *Hon. Secretaries*: Dr J. Stewart, Dunmurry, near Clifton, and T. H. Crampton, 30 Myddelton Square, E.C.
- Islington Medical Society. Founded 1860. *Hon. Secretary*: D. Keele, 14 Highbury Grove, N.
- King's College Medical Society. Founded 1833. *President*: L. V. Cargill. *Hon. Secretaries*: J. A. Drake and E. R. Wheeler.
- Leyton and Leytonstone Medical Society. Founded 1899. *President*: C. W. Smith. *Secretary*: C. H. Panting, Priory House, High Road, Leyton.
- London and Counties Medical Protection Society, Limited, 31 Craven Street, Strand, W.C. Founded 1892. *President*: J. Hutchinson. *Hon. Secretaries*: Dr H. Woods and A. G. R. Foulerton.
- London Hospital Medical Society. Founded 1873. *President*: Dr H. Head. *Secretaries*: J. H. F. Willgress and W. Lowe.
- Medical Defence Union, Limited, 4 Trafalgar Square, W.C. *President*: M. A. Messiter. *Gen. Secretary*: Dr A. G. Bateman.
- Middlesex Hospital Medical Society, Mortimer Street. Instituted 1774. *President*: H. C. Thomson. *Hon. Secretary*: S. B. Smith. *Assistant-Secretary*: H. P. Crampton.
- New Cross Medical Society. Established 1898. *President*: A. Rudd. *Secretary*: S. R. R. Matthews, 207 New Cross Road, S.E.
- North-East London Clinical Society, Tottenham Hospital. *President*: R. M. Leslie. *Secretaries*: H. W. Carson and C. E. Hunt.
- North London Medical and Chirurgical Society. *President*: P. T. B. Beale. *Secretaries*: T. J. Horder, 141 Harley Street, W., and A. Hair, 481 Holloway Road, N.
- Otological Society of the United Kingdom. Founded 1899. *President*: T. Barr. *Hon. Secretaries*: H. Tilley and H. E. Jones.
- Plaistow and Canning Town Medical Society. Established 1898. *Secretary*: Dr E. Hay, 240 Victoria Dock Road, E.
- Poor Law Medical Officers' Association, 9 Copthall Avenue, E.C. *President*: Dr Farquharson, M.P. *Hon. Secretary*: Dr M. Greenwood, 243 Hackney Road, N.E.
- Pupils' Physical Society, Guy's Hospital. Founded 1880. *Hon. President*: Sir S. Wilks, Bart. *Hon. Secretaries*: E. I. Spriggs and R. P. Rowlands.
- St Andrews Graduates' Association. Founded 1867. *President*: Sir C. G. Brown, K.C.M.G., M.D. *Hon. Secretary*: Dr W. Rigden.
- St Thomas' Hospital Medical and Physical Society. Founded 1820. *President*: F. G. Parsons. *Hon. Secretaries*: L. E. C. Norbury and C. M. Page.
- Society for the Study of Diseases of Children. Founded 1900. *Hon. Secretaries*: G. A. Sutherland, 78 Wimpole Street, W., E. Cantley and R. H. A. Whitelocke.
- Society for the Study of Inebriety. Founded 1884. *President*: H. Campbell, M.D. *Hon. Secretary*: T. N. Kelynaack, 120 Harley Street, W.
- Society of Medical Phonographers. Founded 1894. *President*: D. Ferrier. *Hon. Secretary*: Dr F. Beach.
- Society of Members of the Royal College of Surgeons of England, 11 Adam Street, Strand, W.C. Founded 1894. *President*: J. Smith. *Hon. Secretary*: Dr W. G. Dickinson, West Hill, Putney, S.W.

South-West London Medical Society. Founded 1893. *President*: E. F. White. *Hon. Secretaries*: Dr M. Mackintosh, 51 West Side, Clapham Common, S.W., and E. J. Pritchard.
 Sydenham District Medical Society. Founded 1868. *President*: W. F. Umney. *Secretary*: Dr H. M. Stewart, Walton House, Lordship Lane, S.E.
 United Kingdom Police Surgeons' Association. *President*: H. W. Roberts. *Hon. Secretaries*: F. W. Lowndes, M.R.C.S., 40 Knight Street, Liverpool; G. Harrison, 18 Whitefriars, Chester.
 Volunteer Medical Association, 20 Hanover Square. Founded 1883. *President*: Field-Marshal Earl Roberts, V.C., K.G. *Hon. Secretary*: Capt. E. C. Montgomery-Smith, 36 Abbey Road, N.W.
 Willesden and District Medical Society. Founded 1894. *President*: H. J. Macavoy. *Hon. Secretaries*: C. James, 114 Walm Lane, N.W., and W. Maclellan, 129 Dartmouth Road, N.W.
 Wimbledon and District Medical Society. Founded 1900. *President*: G. Walker. *Hon. Secretary*: F. Deas, Merton Park, S.W.
 Wood Green and District Medical Society. Established 1896. *President*: Dr C. H. Conolly. *Secretary*: Dr W. B. Winston, Cleveland House, Bounds Green Road, New Southgate, N.

COUNTRY.

Accrington and District Medical Society. Founded 1894. *President*: T. E. Nuttall. *Secretary*: R. L. Fitzgerald, Gothic House.
 Ashton-under-Lyne and District Medical Society. Established 1897. *President*: W. H. Hughes. *Secretary*: Dr J. W. Talent, Welbeck Place.
 Association of Certifying Factory Surgeons. Founded 1889. *President*: N. W. L. Browne. *Hon. Secretary*: Dr W. F. Dearden, Crumpsall, Manchester.
 Beckenham and Penge Medical Society. Founded 1895. *President*: G. T. Giddings. *Hon. Secretary*: G. R. Stillwell, 14 Southend Road, Beckenham.
 Bedford Medical Society. Founded 1896. *President*: A. Chillingworth. *Secretary*: W. G. Nash, Clavering House.
 Birkenhead Medical Society. Founded 1886. *President*: S. Wilkinson. *Secretary*: Dr J. H. Fardon, 59 Grange-Mount.
 Birmingham and District General Practitioners' Union. Founded 1899. *President*: H. W. L. Browne. *Hon. Secretary*: J. Neal, 610 Coventry Road.
 Birmingham Medical Institute, Edmund Street. Founded 1874. *President*: A. Oakes. *Hon. Secretaries*: W. R. Jordan and C. Leedham-Green.
 Birmingham University Medical Society. Founded 1877. *President*: Dr W. J. M'Cardie. *Hon. Secretaries*: Dr D. Heath, Hagley Road, and W. W. Nock.
 Blackburn and District Medical Society. Founded 1890. *President*: A. B. Craig. *Secretary*: Dr R. Y. Aitken, 53 Preston New Road, Blackburn.
 Bolton and District Medico-Ethical Society. Founded 1864. *President*: R. D. Mothersole. *Hon. Secretary*: H. J. Taylor, 44 St George's Road.
 Bournemouth Medical Society. Founded 1876. *President*: B. Scott. *Hon. Secretary*: F. O. Bottomley, The Lindens, Christchurch Road.
 Bradford and West Riding Medico-Ethical Union. Founded 1901. *President*: J. R. M'Gee. *Hon. Secretaries*: J. Metcalf, 8 Heaton Grove, and G. T. Beaton, Cliffe House.
 Bradford Sanitary Association, 35 Manor Row. *President*: H. J. Campbell, M.D.
 Brighton and Sussex Medico-Chirurgical Society. Founded 1847. *President*: G. Morgan. *Hon. Secretaries*: E. Hobhouse, 113 Queen's Road, and W. Broadbent.
 Brighton Dental Society. Founded 1888. *President*: D. C. Causah. *Secretary*: S. Read, 12 Old Steine.
 Bury and District Medical Society. Founded 1895. *President*: Dr Crawshaw. *Secretary*: Dr I. W. Johnson, Brook House.
 Buxton Medical Society. Founded 1901. *President*: F. K. Dickson. *Secretary*: Dr G. H. Thompson, 1 High Street.
 Colchester Medical Society. Founded 1774. *President*: G. Brown. *Secretary*: Mr Nicholson, East Lodge.
 Colliery Surgeons Association. Established 1898. *President*: W. Duncan, M.D. *Hon. Secretary*: J. H. Marsh, Moorside, Little Hulton, Bolton.
 Coventry Public Medical Service. Instituted 1893. *Chairman*: T. A. B. Soden. *Hon. Secretary*: J. L. Callaghan, The Towers.
 Cranbrook and District Medico-Chirurgical Society. Founded 1900. *President*: C. C. Stead. *Secretary*: Dr Colls, Benenden.
 Derby Medical Society. Founded 1891. *President*: F. R. Cassidi. *Secretary*: E. C. Green, 27 Friar Gate.
 Devon and Exeter Medico-Chirurgical Society. Founded 1889. *President*: E. B. Thomson. *Secretary*: G. F. Webb, Fairlawn, Moretonhampstead.
 Devonport Medical Society. *Hon. Secretary*: J. R. Rolston, 5 St Aubyn Street.
 Durham University Medical Graduates' Association. Founded 1880. *President*: J. W. Hembrough. *Hon. Secretaries*: J. W. Leech, 12 Eldon Square, Newcastle-on-Tyne, and Dr T. O. Wood, 40 Margaret Street, London, W.
 Eastbourne Medical Society. Founded 1883. *President*: J. H. Ewart. *Secretary*: Dr H. S. Gabbett, 8 Chiswick Place.
 Folkestone Medical Society. Founded 1893. *President*: J. W. Tyson. *Secretary*: J. E. G. Calverley, 10 Earls Avenue.
 Fylde Medical Society. Founded 1888. *President*: G. Forbes. *Hon. Secretary*: Dr L. Molloy, 3 Brighton Parade, Blackpool.
 Gateshead Medical Association. Founded 1896. *President*: Dr H. J. Gilbert. *Hon. Secretary*: A. Cox, M.B., Cotfield House.
 Halifax and District Medical Society. Established 1882. *President*: J. A. Adams. *Hon. Secretary*: Dr A. Lockwood, Waterloo House.
 Harrogate Medical Society. *President*: E. Solly. *Hon. Secretary*: W. Edgecombe.

- Hartlepool Medical Society. *President*: A. E. Morrison. *Hon. Secretary*: B. Watson, 77 York Road.
- Herefordshire Medical Association. Founded 1858. *President*: H. B. Pope. *Secretary*: E. Morris, 134 St Owen Street, Hereford.
- Hull Medical Society. Founded 1889. *President*: H. W. Pigeon. *Secretary*: J. MacNidder.
- Ilford Medical Society. Established 1898. *President*: T. B. Jobson. *Hon. Secretary*: W. Appleyard, Wildcombe, Cranbrook Road.
- Ipswich Clinical Society. Established 1889. *President*: J. F. C. Hossack. *Hon. Secretary*: W. A. Gibb, 2 Park Place.
- Ile of Man Medical Society. Established 1896. *President*: J. A. Dearden. *Secretary*: P. F. Casey, 2 Kingswood Grove, Douglas.
- Jersey Medical Society. Founded 1874. *President*: A. C. Godfray. *Secretary*: E. O. B. Volsin, 56 Bath Street.
- Kidderminster Medical Society. Founded 1898. *President*: W. H. Moore. *Secretary*: Dr O. C. P. Evans, 22 Church Street.
- Liverpool District Odontological Society. Founded 1895. *President*: R. H. Bates. *Hon. Secretary*: J. A. Woods, 76 Mount Pleasant.
- Liverpool Medical Institution. Founded 1837. *President*: J. Barr. *Hon. Gen. Secretary*: F. C. Larkin, 114 Mount Pleasant.
- Manchester and Salford Sanitary Association. Founded 1852. *President*: Bishop of Manchester. *Secretary*: F. Scott, 33 Brazenose Street, Manchester.
- Manchester Medical Guild. Founded 1894. *President*: F. H. Walmsley. *Hon. Secretary*: D. Owen, St Brelades, Irlams-o'-th'-Height.
- Manchester Odontological Society. Founded 1885. *President*: A. Cocker. *Hon. Secretaries*: T. E. Sherratt, 26 King Street, and J. Stephenson, Western House, Fallowfield.
- Middlesbrough and District Medical Society. Established 1899. *President*: G. C. H. Fulton. *Secretary*: R. E. Howell, Park Terrace.
- Midland Medical Union. Founded 1900. *President*: Dr J. Shea. *Secretaries*: E. H. Houlton, Shirebrook, and C. J. Palmer, Mansfield Woodhouse.
- Mirfield and District Medico-Chirurgical Society. Founded 1895. *President*: L. J. Milne. *Secretary*: Dr Girling, Birstall.
- Newbury and District Medical Society. Founded 1887. *Hon. Secretaries*: R. Birch and Dr J. Watson.
- North of England Odontological Society. Founded 1894. *President*: W. D. Moon. *Hon. Secretaries*: J. G. Ranken, 14 Grange Crescent, Sunderland; R. Carr, 3 St Mary's Terrace, Newcastle-on-Tyne.
- Northumberland and Newcastle Medical Association. Established 1899. *President*: R. Morrison. *Secretary*: G. Drury, 55 Pilgrim Street, Newcastle-on-Tyne.
- Norwich Medico-Chirurgical Society. Founded 1867. *President*: D. G. Thomson. *Hon. Secretary*: S. H. Long, 37 St Giles Street.
- Oldham Medical Society. Founded 1882. *President*: T. Fort. *Secretary*: A. H. Godson, 63 Union Street West.
- Oxford Medical Society. Founded 1892. *President*: W. T. Brooks. *Secretary*: Dr E. Mallam, 3 Holywell Street.
- Penzance (West Penwith) Medical Society. Established 1898. *President*: Dr J. B. Montgomery. *Hon. Secretary*: R. D. Boase, Rosevean Cottage.
- Plymouth Medical Society. Founded 1794. *President*: E. L. Fox. *Hon. Secretaries*: G. F. Aldous, Charlton House, and W. L. Pethybridge, Whitefield Terrace.
- Portsmouth Medical Union. Founded 1895. *President*: J. Phillips. *Hon. Secretary*: J. T. Leon, "Elmwood," Grove Road, Southsea.
- Preston Medico-Ethical Society. *President*: Dr I. Sellers. *Secretary*: Dr Mooney, Winckley Square.
- Ramsgate Medical Society. Founded 1883. *Hon. Secretary*: E. Fisk, "Lindfield," Crescent Road.
- Reading Pathological Society. Founded 1841. *President*: J. H. Walters. *Hon. Secretaries*: Dr G. F. Murrell, Blenheim Lodge, and M. W. Coleman, 78 Castle Street.
- Rochdale Medical Society. Founded 1840. *President*: W. Pooley. *Secretary*: Dr J. A. Menzies, 174 Drake Street.
- St Helen's Medical Society. Founded 1826. *President*: J. Reid, M.B. *Hon. Secretary*: Dr F. Bassett, Hardshaw Street.
- Sheffield and District Association of Licentiates in Dental Surgery. Founded 1883. *President*: G. Lodge. *Hon. Secretary*: H. J. Morris, 451 Glossop Road.
- Southampton Medical Society. Founded 1852. *President*: J. Oliver. *Hon. Secretaries*: W. P. Purvis, 14 Carlton Crescent, and W. J. May, 50 Archer Road.
- Southport Medical Society. Established 1899. *President*: G. C. Walker. *Hon. Secretary*: Dr R. M. Littler, 29 Hawkhead Street.
- South Shields Medical Practitioners' Association. Founded 1898. *President*: Dr J. Armstrong. *Hon. Secretary*: Dr J. H. Hunter, 12 Frederick Street.
- Stockport and District Medical Society. Founded 1885. *President*: Dr Rayner. *Secretaries*: Dr Moore, Hazel Grove.
- Torquay Medical Society. Founded 1840. *President*: W. W. Stabb. *Hon. Secretary*: Dr M. Jones, Beaumont.
- Walsall Medical Society. Founded 1880. *President*: G. A. Phillips. *Secretary*: F. G. Layton, 38 Ablewell Street.
- Warrington Medico-Ethical Society. Established 1896. *President*: E. E. Bowden. *Hon. Secretary*: A. Anderson, 66 Manchester Road.
- West Herts Medical Society. Founded 1849. *President*: Dr F. Fisher. *Hon. Secretary*: F. H. Berry, M.D., Watford.
- Widnes and District Medical Society. Founded 1895. *President*: C. Hutchinson. *Hon. Secretary*: T. U. Mercer, Hough Green.
- Wigan and District Medical Guild. Founded 1896. *Chairman*: W. M. Rookcroft. *Secretary*: L. Cooke, Ashfield, Aspull.
- Windsor and District Medical Society. Established 1899. *President*: W. B. Holderness. *Secretaries*: Drs C. R. Elgood 8 Clarence Villas and G. E. Hale High Street, Eton.

- Woolwich, Plumstead, and Charlton Medical Union. Founded 1896. *President*: S. Davies. *Secretary*: Dr Cowie.
 Worcestershire Medical Society. Founded 1867. *President*: S. W. Coomba. *Hon. Secretary*: H. A. Watson, 41 Foregate Street.
 York Medical Society. Founded 1832. *President*: E. M. Smith. *Secretary*: Dr G. A. Anden, 76 Bootham.

SCOTLAND.

- Buchan Medical Society. Founded 1862. *President*: A. Wood. *Secretary*: Dr G. S. Traill, Strichen.
 Caledonian Medical Society. Founded 1881. *President*: G. Mackay. *Secretary*: Dr S. R. Macphail, Rowditch, Derby.
 Clackmannan and Kinross-shire Medical Association. Founded 1837. *President*: Dr Bell. *Secretary*: Dr Home-Hay, Alloa.
 Edinburgh Harveian Society. Founded 1782. *President*: R. Somerville. *Hon. Secretaries*: F. D. Boyd, 22 Manor Place, and J. W. Dowden, 27 Walker Street.
 Edinburgh Odonto-Chirurgical Society. Founded 1868. *President*: W. G. Campbell. *Hon. Secretary*: Dr J. M. Stewart, 1 Melville Street.
 Fifeshire Medical Association. Founded 1882. *President*: J. Musgrove. *Secretary*: Dr C. E. Douglas, Winthank House, Cupar.
 Forfarshire Medical Association. Founded 1858. *President*: A. Key. *Secretary*: G. Miller, 39 S. Tay Street, Dundee.
 Garioch and Northern Medical Association. Founded 1854. *President*: D. W. Finlay. *Secretary*: Dr Paterson, Inverurie.
 Glasgow Eastern Medical Society. Founded 1893. *President*: J. Dunlop. *Secretary*: P. S. Buchanan, 20 Circus Drive, Dennistoun.
 Glasgow Faculty of Medicine. Founded 1824. *President*: Dr Millar. *Secretary*: Dr T. S. Meighan, 219 Gallowgate.
 Glasgow Pathological and Clinical Society. Founded 1873. *President*: R. Muir. *Hon. Secretary*: J. W. Findlay, 19 Westercraigs, Dennistoun.
 Inverness Medical Society. Founded 1886. *President*: Dr J. Murray. *Secretary*: Dr J. M. Moir.
 Scottish Midland and Western Medical Association. Founded 1872. *President*: A. MacPherson. *Secretary*: Dr C. Crawford, Hamilton.
 Scottish Poor Law Medical Officers' Association. Founded 1895. *President*: A. Cross. *Secretary*: Dr W. Muir, 1 Seton Terrace, Glasgow.
 Society of Medical Officers of Health for Scotland. Founded 1891. *President*: Dr Nasmyth. *Hon. Secretary*: Dr W. Robertson.

IRELAND.

- Cork Poor Law Medical Officers' Association. Founded 1891. *President*: Dr D. B. O'Flynn. *Secretary*: J. Keating.
 Fermanagh Medico-Ethical Association. *Secretary*: L. Kidd, Enniskillen.
 Irish Medical Association. Founded 1839. *President*: R. F. Tobin. *Hon. Secretary*: T. Donnelly, 14 Rutland Square, Dublin.

SECTION XV.

RECEIVED TOO LATE FOR CLASSIFICATION.

MANCHESTER ASTRONOMICAL SOCIETY, MUNICIPAL SCHOOL OF TECHNOLOGY, MANCHESTER.

Officers.—*President*: E. T. Whitelow, F.R.A.S. *Secretary*: W. C. Jenkins,
Godlee Observatory, School of Technology, Manchester.

Meetings.—On the first Wednesday in each month from October to April
inclusive, at 7 P.M. The Anniversary Meeting is held in November.

Membership.—Number of Members in May 1905 was 114. Subscription: 5s.
Ordinary, 2s. 6d. Ladies and Students at School of Technology.

List of Papers read during Session 1904–1905.

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|---|--|
| <i>Bacon, Miss G.</i> —An Evening with the Telescope. Oct. 12. | the Moon on the Evening of March 9. Feb. 1. |
| <i>Buss, A. A.</i> —Solar Prominences. Dec. 7. | <i>Jenkins, W. C.</i> —Note on the Position of Mercury, with Reference to Venus and Jupiter during April 1905. Apr. 5. |
| —The Synchronism of the Sun's Rotation and Terrestrial Magnetic Storms. Feb. 1. | <i>Okell, S., F.R.A.S.</i> —A Sketch of the Lives of Sir William Herschel and his Sister Caroline Herschel. Jan. 4. |
| <i>Core, Prof. T. H., M.A.</i> —Photography in Astronomy. Nov. 2. | <i>Proctor-Smyth, Mrs S. D.</i> —Other Worlds than Ours. Apr. 5. |
| <i>Cortie, Rev. A. L., S.J., F.R.A.S.</i> —The Spectra of Sunspots. Mar. 1. | <i>Whitehead, James.</i> —The Moon's Rotation. Jan. 4. |
| <i>Jenkins, W. C.</i> —Note on the Positions of the Planets Venus, Jupiter, and | |

SOCIOLOGICAL SOCIETY,

5 OLD QUEEN STREET, MANCHESTER. (FOUNDED 1904.)

Objects.—Scientific, Educational, and Practical; to promote investigation and advance education.

Officers.—*President*: The Right Hon. James Bryce. *Secretary*: Victor V. Branford, 5 Old Queen Street, Manchester.

Meetings.—Six annually, at the School of Economics, University of London.

Membership.—Annual Subscription, 21s.

Publication.—*Sociological Papers*, Vol. I.

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THIS Index includes (1) the names of all Societies respecting which information is furnished in the body of the Book, (2) the names of affiliated Societies, &c., respecting which no official information was obtainable, but which are retained in their proper places in the foregoing pages, and (3) Societies no reference to which is made elsewhere, and which are here indicated by a *. If the Secretaries of these Societies will send their addresses to the Publishers, they will materially help towards rendering the YEAR-BOOK complete.

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